

XSP Series

OSQ™ LED Area Flood Luminaire featuring Cree™ TrueWhite™ Technology - Medium & Large

Product Description:
The OSQ™ Series is a high-performance, medium and large area flood luminaire. It features a die-cast aluminum housing with a clear polycarbonate lens. The luminaire is designed for outdoor use and is suitable for parking lots, industrial areas, and large open spaces. It is available in two sizes: 2MBLS and 4MBLS.

Performance Summary:

Model	Power (W)	Beam Spread (ft)	Height (ft)	Foot Candles (fc)
2MBLS	100	10	10	10
4MBLS	200	20	10	10

Accessories:

Part Number	Description
OSQ-2MBLS-100W	OSQ™ LED Area Flood Luminaire, 100W, 2MBLS
OSQ-4MBLS-200W	OSQ™ LED Area Flood Luminaire, 200W, 4MBLS

Ordering Information:

Part Number	Power (W)	Beam Spread (ft)	Height (ft)	Foot Candles (fc)
OSQ-2MBLS-100W	100	10	10	10
OSQ-4MBLS-200W	200	20	10	10

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- ### GENERAL NOTES
- Coordinate with electrical contractor to provide conduits for site lighting.
 - Light pole base shall be designed and provided by others. All bases in green space shall be eight (8) inch height. All bases in pavement shall be thirty-six (36) inch height.
 - Mounting height listed in luminaire schedule includes height of the pole base.
 - Calculations based on crane lighting fixtures. Any substitutions need to meet city code requirements.
 - Existing light poles and luminaires.
 - All existing light poles shall be replaced with bronze poles. All proposed light poles shall be bronze.
 - Quantities shown on this sheet are total quantities for design.
- ### BLOOMINGTON CODE REQUIREMENTS
- 27' - maximum pole height
 - 10:1 - minimum uniformity ratio (50% reduction for perimeter 25')
 - 2.0 fc - minimum foot candles (pavement surface)
 - 2.0 fc - minimum foot candles (sidewalk)
 - 10.0 fc - minimum foot candles (primary building entrance, radius of 2x door opening)
 - 2.0 fc - minimum foot candles (secondary building entrance, 8' radius)
 - 3.0 fc - minimum foot candles (pedestrian access surface from primary building entrance, within 30')
 - 2.0 fc - minimum foot candles (pedestrian access surface to primary building entrance, beyond 30')
 - 4.0 fc - minimum foot candles (pedestrian crosswalk, 2x ft. level of pavement)
 - 50.00 maximum lumens per single fixture, initial lumens

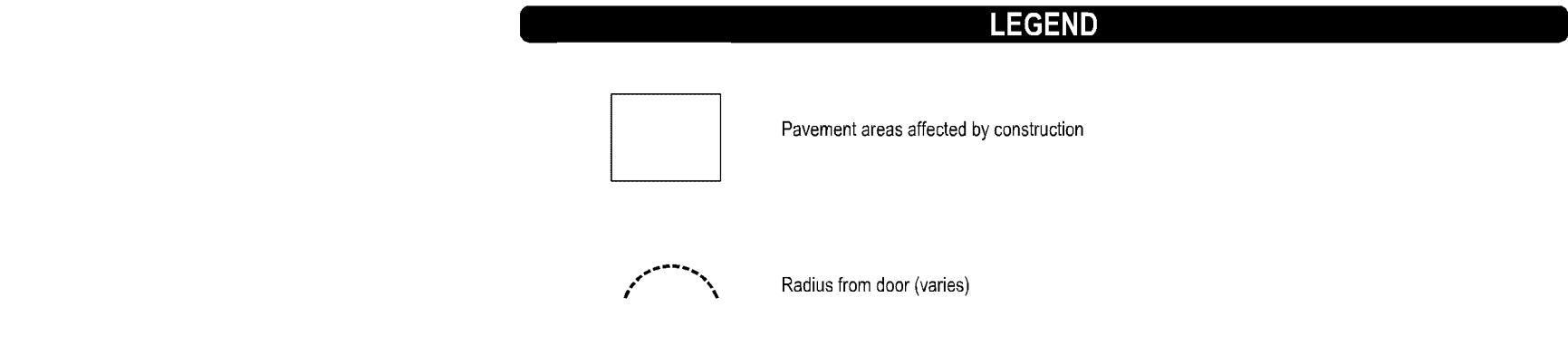
LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	QUANTITY	MOUNTING	MODEL	LUMENS / LAMP
2MBLS		2	POLE	Cree Lighting OSQ-2MBLS-100W-2000K-LED	2880
4MBLS		1	POLE	Cree Lighting OSQ-4MBLS-200W-2000K-LED	0
OVR		50	RECESSED	C-ULN-C-CP-BRD-ST-SCCT-EX (40K)	0
W2		10	WALL	Cree Inc XSPW-B-WM-3ME-2L-40K-UL-CONFIGURED FROM XSPW-B-WM-3ME-2L-40K-UL	0
W3		20	WALL	Cree Inc XSPW-B-WM-3ME-2L-40K-UL-WH	0
W6		2	WALL	Cree Inc XSPW-B-WM-3ME-2L-40K-UL-WH	0
W9		20	WALL	Cree Inc XSPW-B-WM-3ME-2L-40K-UL-CONFIGURED FROM XSPW-B-WM-3ME-2L-40K-UL	8475
WR-4M		6	WALL	Cree Lighting XSPW-B-WM-3ME-2L-40K-UL-CONFIGURED FROM XSPW-B-WM-3ME-2L-40K-UL	8475

FOOT CANDLE CALCULATIONS

Area	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
SOUTH PAVEMENT	5.31	13.5	2.4	0.16	5.86	2.22
NORTH PAVEMENT	9.43	19.8	4.7	0.24	4.23	2.01
WEST PAVEMENT	5.38	14.2	2.2	0.15	6.47	2.46
EAST PAVEMENT	6.25	17.5	2.9	0.17	6.03	2.16
NORTH CROSSWALK	15.2	21	7.8	0.51	17.42	1.95
WALKWAY	22.34	40.9	2.3	0.06	17.42	9.52
25' ZONE - WEST	6.79	11.9	2.6	0.22	4.58	2.62
WEST CROSSWALK	6.18	6.5	4.5	0.69	1.44	1.38

Door	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
Door 1	16.46	20.7	10.4	0.5	1.99	1.59
Door 2	17.88	26.3	13.4	0.68	1.51	1.34
Door 3	16.42	25.3	12.4	0.49	2.04	1.48
Door 7	3.91	4.2	3.6	0.85	1.17	1.1
Door 8	3.47	3.7	3.1	0.8	1.15	1.07
Door 9	3.6	3.7	3.4	0.92	1.08	1.05
Door 4	13.49	19.9	7.9	0.4	2.51	1.7
Door 5	3.11	3.4	2.8	0.8	1.24	1.13
Door 6	4.39	4.5	4.3	0.96	1.04	1.02
Property line - North	0.27	0.6	0	0.03	37.67	16.21
Property line - SOUTH	0.47	0.8	0	0.06	17.27	10.31
Property line - WEST	0.99	1.8	0.1	0.06	17.13	9.41



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MUNICIPALITY

BLOOMINGTON

PROJECT
LUTHER HYUNDAI
BLOOMINGTON, MN
ISSUE REVISION HISTORY

DATE	ISSUE / REVISION	REVISION
10/20/2022	DISC 5 BULLETIN	001
11/09/2022	DISC 5 BULLETIN	002
08/04/2023	DISC 5 BULLETIN	003
08/24/2023	DISC 5 BULLETIN	004
11/23/2023	DISC 5 BULLETIN	005
02/02/2024	DISC 5 BULLETIN	006
02/02/2024	DISC 5 BULLETIN	007
02/02/2024	DISC 5 BULLETIN	008
02/02/2024	DISC 5 BULLETIN	009
02/02/2024	DISC 5 BULLETIN	010

CERTIFICATION

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BULLETIN 06
 DECEMBER 21, 2023

LANDFORM
 From Site to Finish

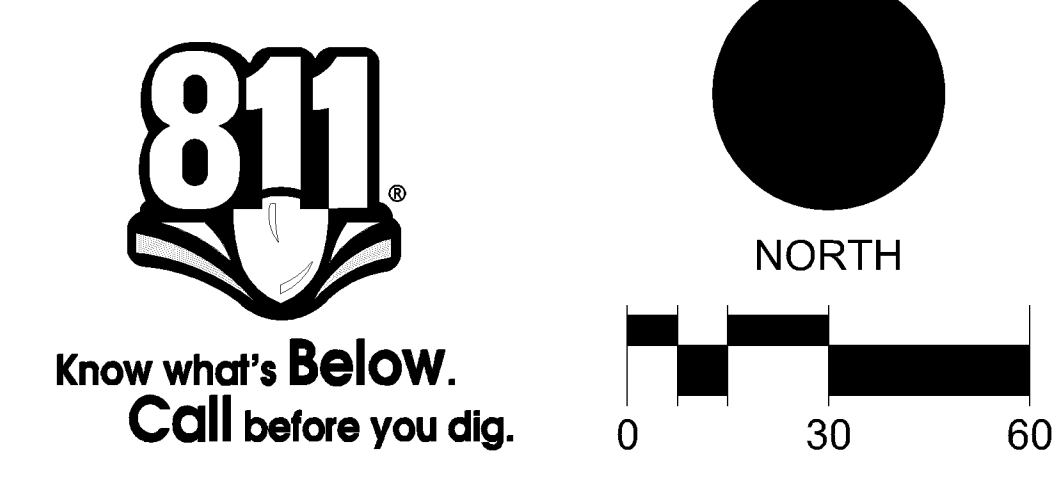
105 South Fifth Avenue, Suite 513, Minneapolis, MN 55401
 Tel: 612-252-9070, Fax: 612-252-9077, Web: landform.net

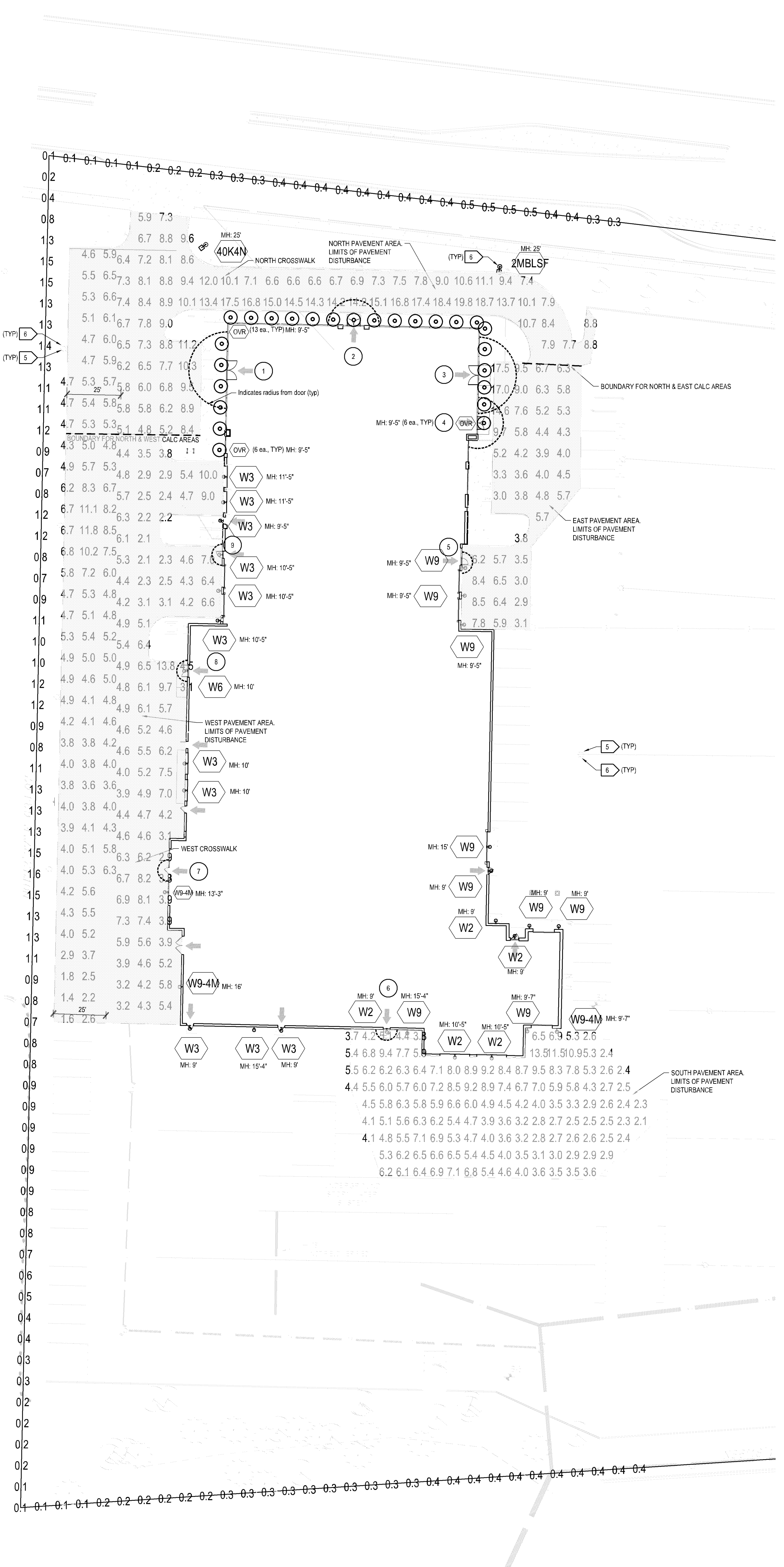
FILE NAME: L401LUT054.DWG
 PROJECT NO: LUT2054

PHOTOMETRICS PLAN - INSTALLED VALUES
L4.1

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PL202300187
 PL2023-187





XSP Series

Product Description: The XSP Series is a high-performance, adjustable, and dimmable LED lighting fixture designed for outdoor use. It features a die-cast aluminum housing and a clear polycarbonate lens. The fixture is available in multiple mounting heights and beam spreads to suit various applications.

Performance Summary: The XSP Series provides a high lumen output per watt, ensuring efficient and long-lasting illumination. It is designed to meet or exceed industry standards for outdoor lighting.

Accessories: Includes mounting hardware, electrical components, and optional accessories for enhanced performance and durability.

Lighting Information: Detailed table of lighting specifications including beam spread, mounting height, and lumen output for various models.

CREE LIGHTING logo

OSQ Series

Product Description: The OSQ Series is a compact, adjustable, and dimmable LED lighting fixture. It is designed for use in tight spaces and offers a wide range of beam spreads and mounting options.

Performance Summary: The OSQ Series is known for its high efficiency and long life span, making it an ideal choice for outdoor lighting applications.

Accessories: Includes mounting hardware and electrical components for easy installation.

Lighting Information: Detailed table of lighting specifications including beam spread, mounting height, and lumen output for various models.

CREE LIGHTING logo

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	QUANTITY	MOUNTING	MODEL	LUMENS / LAMP
2MBSF	(Symbol)	1	POLE	One Inc Lighting OSQ-B-300-180-2M-4K-xx-xx-xx-xx w/ OSQ-B-SLF CONFIGURED FROM OSQ-B-300-180-2M-4K-xx-xx-xx-xx w/ OSQ-B-SLF	0
40KAN	(Symbol)	1	POLE	One Inc Lighting OSQ-B-400-180-4M-4K-xx-xx-xx-xx w/ OSQ-B-SLF CONFIGURED FROM OSQ-B-400-180-4M-4K-xx-xx-xx-xx w/ OSQ-B-SLF	0
OVR	(Symbol)	50	RECESSED	C-10k-C-CP-B-800-5T1-80CT-xx-10K	0
W2	(Symbol)	10	WALL	One Inc XSPN-B-xx-2M-3L-4K-UL CONFIGURED FROM XSPN-B-xx-2M-3L-4K-UL	0
W3	(Symbol)	20	WALL	One Inc XSPN-B-VM-1M-2L-4K-UL-WH	0
W6	(Symbol)	2	WALL	One Inc XSPN-B-VM-1M-2L-4K-UL-WH	0
W9	(Symbol)	20	WALL	One Inc XSPN-B-xx-2M-3L-4K-UL CONFIGURED FROM XSPN-B-xx-2M-3L-4K-UL	8470
W9-4M	(Symbol)	8	WALL	One Inc XSPN-B-VM-1M-2L-4K-UL-xxxx	8470

FOOT CANDLE CALCULATIONS - MAINTAINED VALUES

Area	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
SOUTH PAVEMENT	5.22	13.5	2.1	0.16	8.31	2.44
NORTH PAVEMENT	9.44	19.8	4.8	0.24	4.15	1.88
WEST PAVEMENT	5.01	13.8	2.1	0.15	6.7	2.43
EAST PAVEMENT	6.25	17.5	2.9	0.17	6.04	2.16
NORTH CROSSWALK	12.32	17	9.7	0.51	1.95	1.41
WEST CROSSWALK	6.23	6.5	4.5	0.7	1.43	1.37
WALKWAY	18.09	33.1	1.8	0.06	17.42	9.52
25' ZONE - WEST	5.1	11.8	1.4	0.12	8.2	3.55

Door	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
Door 1	16.48	20.7	10.4	0.5	1.99	1.59
Door 2	17.88	26.3	13.4	0.68	1.51	1.34
Door 3	18.42	25.3	12.4	0.49	2.04	1.48
Door 7	3.88	4.1	3.5	0.85	1.18	1.1
Door 8	5.88	5.9	5.3	0.89	1.13	1.08
Door 9	3.44	3.8	3.2	0.89	1.11	1.08

Door	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
Door 4	13.48	19.9	7.9	0.4	2.51	1.71
Door 5	3.22	3.4	3.1	0.9	1.11	1.05
Door 6	4.5	4.5	4.5	1	1	1

Property line	Average Foot-Candles	Maximum Foot-Candles	Minimum Foot-Candles	Minimum to Maximum FC Ratio	Maximum to Minimum FC Ratio	Average to Minimum FC Ratio
Property line - North	0.32	0.5	0.1	0.17	6.01	3.78
Property line - SOUTH	0.29	0.4	0.1	0.26	3.9	2.63
Property line - WEST	0.88	1.6	0.1	0.06	16.06	6.61

- ### GENERAL NOTES
- Coordinate with electrical contractor to provide conduits for site lighting.
 - Light pole base shall be designed and provided by others. All bases in green space shall be eight (8) inch height. All bases in pavement shall be thirty-six (36) inch height.
 - Mounting height listed in luminaire schedule includes height of the pole base.
 - Calculations based on crane lighting fixtures. Any substitutions need to meet city code requirements.
 - Existing light poles and luminaires.
 - All existing light poles shall be replaced with bronze poles. All proposed light poles shall be bronze.
 - Quantities shown on this sheet are total quantities for design.
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- 27' - maximum pole height
 - 10:1 - maximum uniformity ratio (50% reduction for perimeter 25')
 - 2.0 fc - minimum foot candles (pavement surface)
 - 2.0 fc - minimum foot candles (sidewalk)
 - 10.0 fc - minimum foot candles (primary building entrance); radius of 2x door opening
 - 2.0 fc - minimum foot candles (secondary building entrance); 8' radius
 - 3.0 fc - minimum foot candles (pedestrian access surface from primary building entrance, within 30')
 - 2.0 fc - minimum foot candles (pedestrian access surface to primary building entrance, beyond 30')
 - 4.0 fc - minimum foot candles (pedestrian crosswalk, 2x fc level of pavement)
 - 50,000 maximum lumens (per angle luminaire, initial luminaire)

LEGEND

- (Symbol) Pavement areas affected by construction
- (Symbol) Radius from door (varies)

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MUNICIPALITY

BLOOMINGTON

PROJECT
LUTHER HYUNDAI
BLOOMINGTON, MN
ISSUE REVISION HISTORY

DATE	ISSUE	REVISION
10/20/2022	DISC 5 BULLETIN	REV 01
11/09/2022	DISC 5 BULLETIN	REV 02
08/04/2023	FORM SET	REV 03
08/24/2023	DISC 5 BULLETIN	REV 04
02/20/2024	DISC 5 BULLETIN	REV 05
02/20/2024	DISC 5 BULLETIN	REV 06
02/20/2024	DISC 5 BULLETIN	REV 07
02/20/2024	DISC 5 BULLETIN	REV 08
02/20/2024	DISC 5 BULLETIN	REV 09
02/20/2024	DISC 5 BULLETIN	REV 10

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BULLETIN 06
 DECEMBER 21, 2023

LANDFORM
 From Site to Finish

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 Tel: 612-252-9070, Fax: 612-252-9077, Web: landform.net

FILE NAME: L402.LUT054.DWG
 PROJECT NO: LUT2054

811
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PL202300187
 PL2023-187