

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P144221

Luminaire Tested: **LDRL-5XQ-E01-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144221
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5XQ-E01-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.8 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

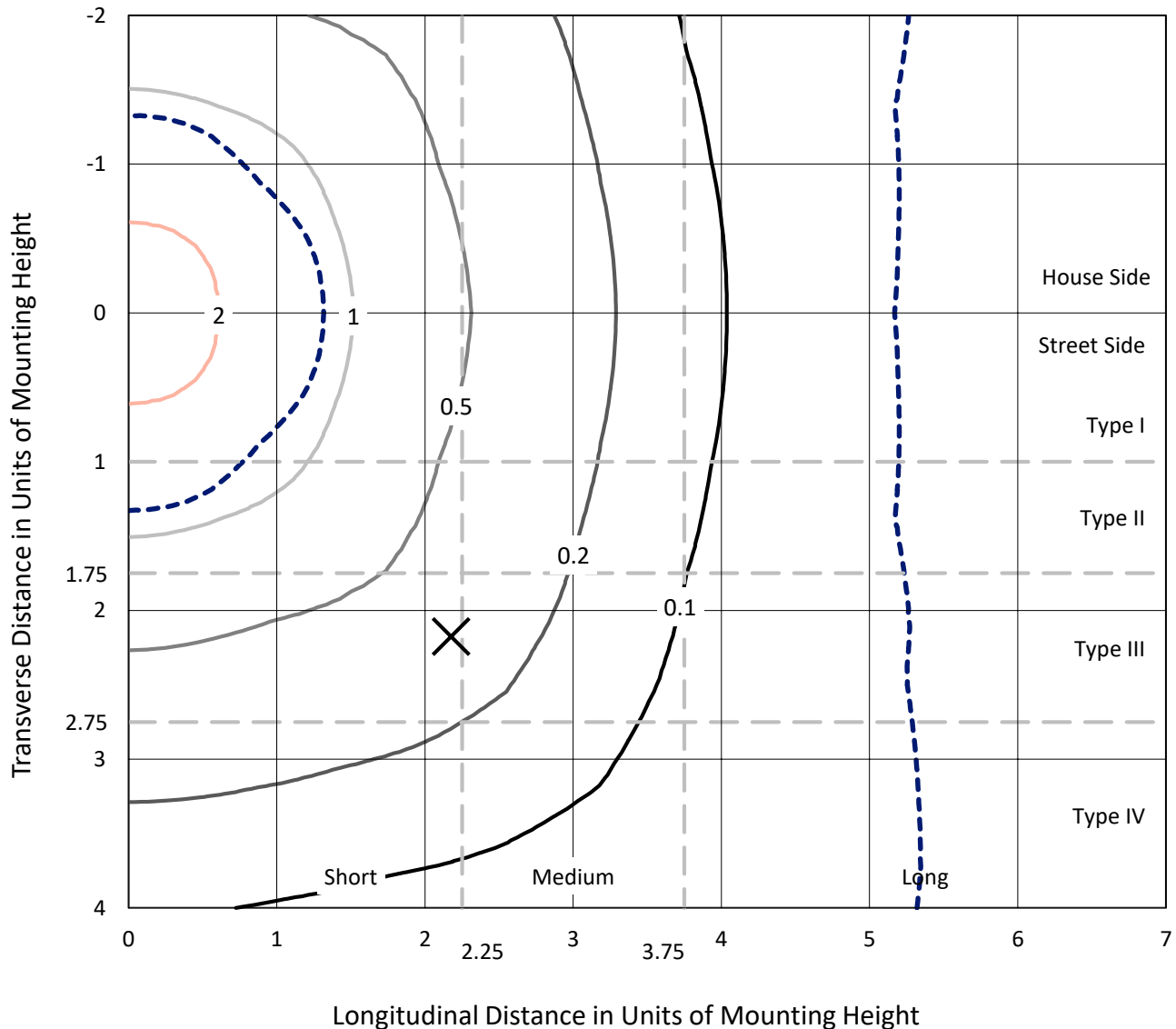
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144221
 CATALOG NUMBER: LDRL-5XQ-E01-E-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

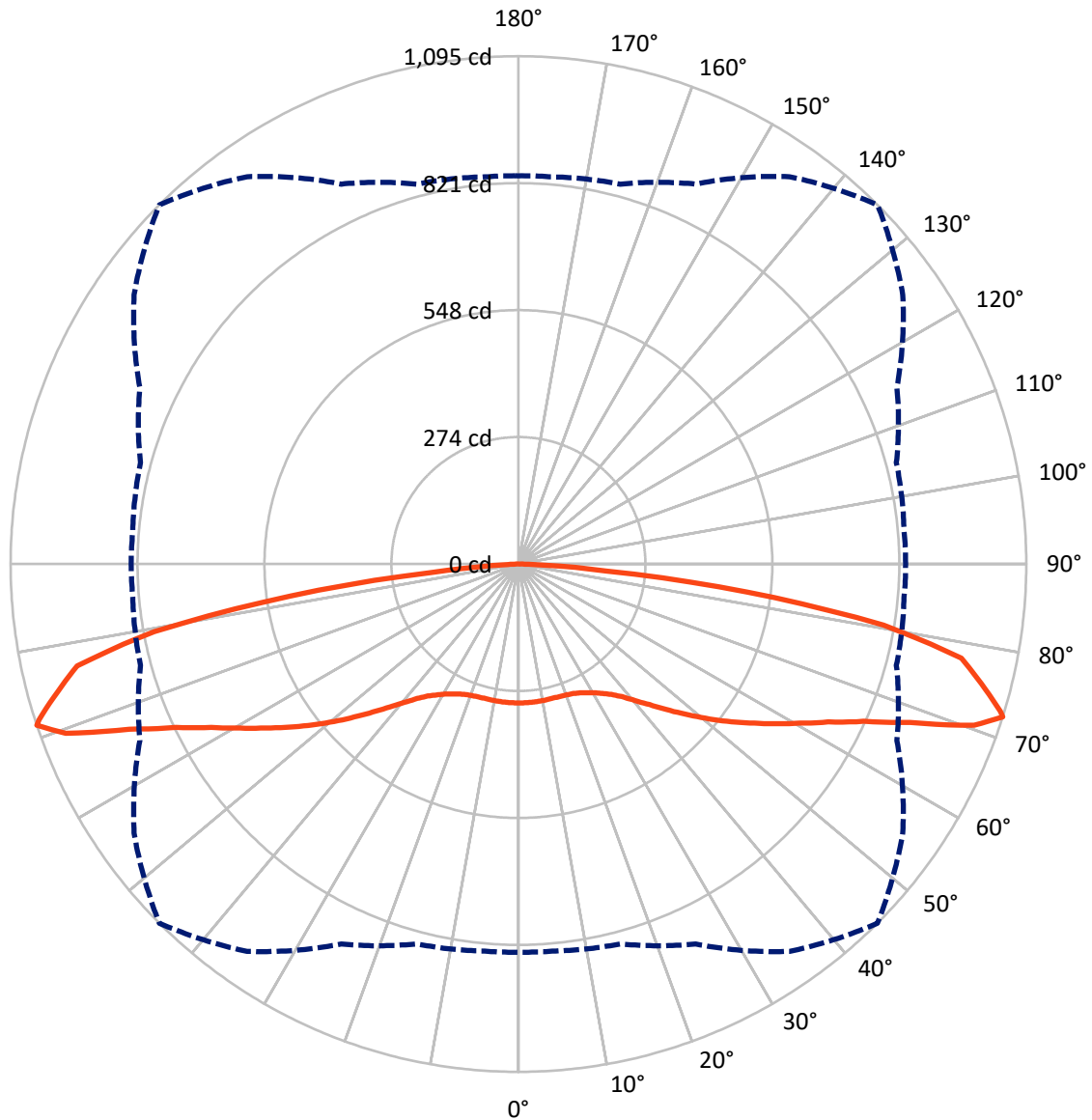


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P144221

CATALOG NUMBER: LDRL-5XQ-E01-E-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P144221

CATALOG NUMBER: LDRL-5XQ-E01-E-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.4	0.0	1586.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1586.4	0.0	1586.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3172.8	0.0	3172.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.9
10°-20°	84.9	2.7
20°-30°	142.7	4.5
30°-40°	217.2	6.8
40°-50°	343.3	10.8
50°-60°	524.4	16.5
60°-70°	768.3	24.2
70°-80°	872.8	27.5
80°-90°	190.6	6.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3172.8	100.0
0°-180°	3172.8	100.0



REPORT NUMBER: P144221

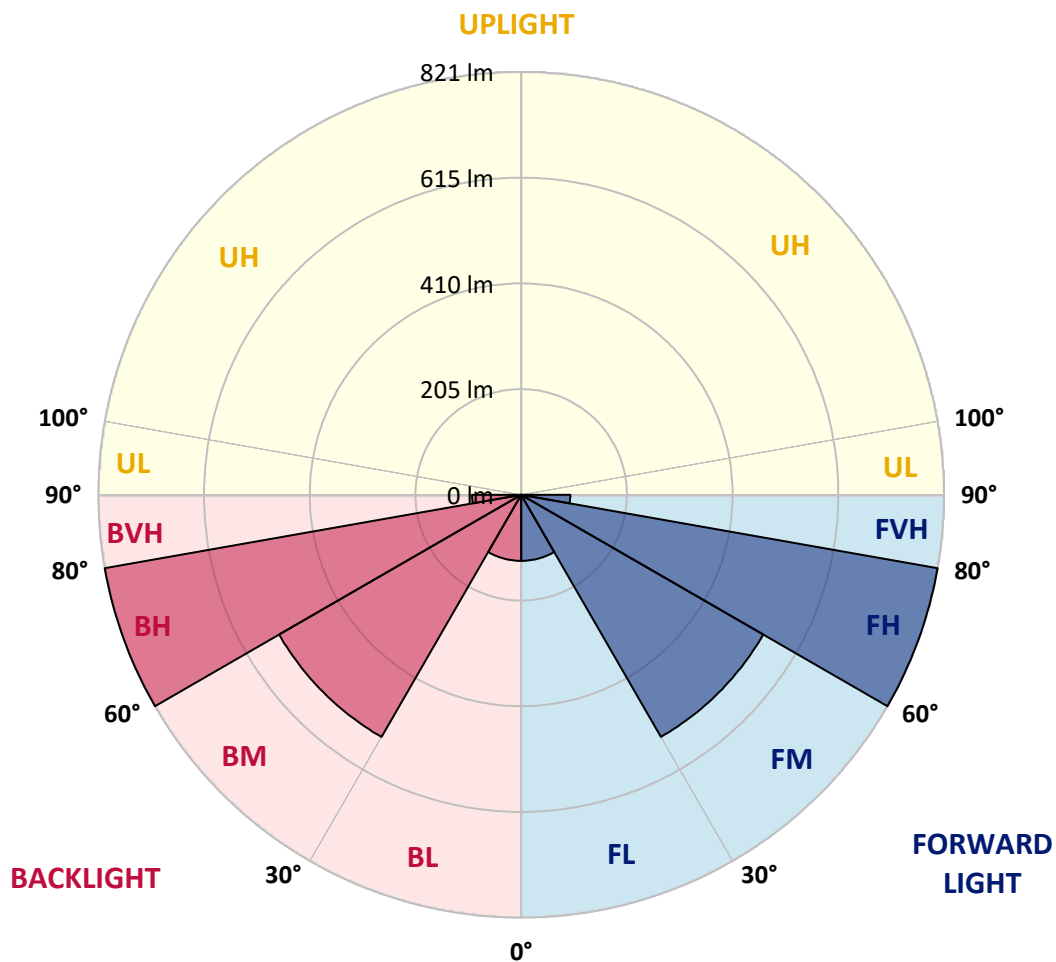
CATALOG NUMBER: LDRL-5XQ-E01-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.1	4.0			
FM (30°-60°)	542.5	17.1			
FH (60°-80°)	820.5	25.9			G1/1800
FVH (80°-90°)	95.3	3.0			G1/100
BL (0°-30°)	128.1	4.0	B1/500		
BM (30°-60°)	542.5	17.1	B1/1000		
BH (60°-80°)	820.5	25.9	B2/1000		G1/1800
BVH (80°-90°)	95.3	3.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P144221

CATALOG NUMBER: LDRL-5XQ-E01-E-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	300.2	300.2	300.0	299.8	299.6	299.5	299.5	299.5	299.5	299.4	299.4
5°	300.2	300.2	300.0	299.8	299.7	299.6	299.6	299.6	299.5	299.4	299.5
7.5°	299.8	300.0	299.8	299.6	299.6	299.5	299.5	299.5	299.4	299.2	299.3
10°	299.9	300.3	300.0	299.7	299.6	299.5	299.3	299.1	299.0	299.0	298.9
12.5°	300.1	300.5	300.2	299.8	299.6	299.5	299.3	299.1	299.0	298.8	298.6
15°	300.8	301.0	300.7	300.4	300.1	299.8	299.6	299.4	299.1	298.8	298.7
17.5°	301.2	301.7	301.4	301.0	300.6	300.2	300.0	299.8	299.6	299.4	299.2
20°	301.9	302.4	302.1	301.8	301.6	301.4	301.2	301.1	300.9	300.8	300.4
22.5°	303.2	303.6	303.5	303.4	303.4	303.5	303.6	303.6	303.5	303.4	303.0
25°	306.0	306.0	306.2	306.4	306.7	307.0	307.2	307.5	307.6	307.8	307.3
27.5°	310.8	311.2	311.4	311.5	312.0	312.5	313.1	313.7	314.0	314.3	313.8
30°	317.0	317.0	317.4	317.8	318.6	319.6	320.2	321.0	321.5	322.1	321.8
32.5°	325.1	325.6	326.1	326.6	327.7	328.8	330.0	331.2	332.0	332.6	332.1
35°	337.3	337.9	338.4	338.9	340.0	341.2	342.6	344.0	344.6	345.2	344.8
37.5°	354.5	354.5	355.2	356.0	356.7	357.4	359.2	361.1	361.8	362.6	362.0
40°	377.8	377.9	378.1	378.2	378.9	379.6	381.8	384.0	385.4	386.8	385.5
42.5°	404.6	405.8	405.7	405.6	406.1	406.5	408.7	410.8	412.8	414.6	413.9
45°	436.2	436.0	435.6	435.2	436.6	438.0	441.0	444.1	445.8	447.5	445.9
47.5°	468.2	467.8	467.2	466.7	468.1	469.4	474.0	478.6	481.1	483.5	481.0
50°	500.0	501.2	500.4	499.7	501.8	503.8	509.6	515.5	519.0	522.6	519.6
52.5°	535.1	536.0	535.2	534.4	537.2	540.0	547.0	553.9	558.6	563.3	559.3
55°	571.6	570.4	570.9	571.4	574.0	576.7	585.2	593.7	599.3	605.0	600.5
57.5°	605.6	606.0	605.6	605.1	609.3	613.5	624.2	635.0	642.0	649.1	643.5
60°	640.4	640.6	639.6	638.6	643.1	647.7	663.1	678.5	687.6	696.8	689.1
62.5°	679.5	679.4	677.6	675.8	681.2	686.6	705.6	724.7	737.3	750.0	740.6
65°	727.3	726.0	725.1	724.0	730.2	736.4	760.1	783.8	800.9	817.9	805.7
67.5°	797.8	796.9	794.7	792.6	799.5	806.4	836.8	867.2	889.2	911.2	895.1
70°	875.4	873.6	875.1	876.6	892.6	908.6	949.4	990.1	1016.2	1042.2	1015.3
72°	837.1	837.8	842.8	847.8	875.9	903.9	961.8	1019.6	1057.4	1095.0	1053.4
72.5°	823.8	824.4	830.0	835.7	862.5	889.2	948.9	1008.6	1047.6	1086.6	1043.8
75°	767.1	768.8	775.3	781.8	809.0	836.1	896.3	956.4	993.8	1031.2	988.3
77.5°	674.6	679.8	686.4	693.0	725.4	757.7	825.7	893.7	935.0	976.4	927.6
80°	514.9	513.0	524.4	535.8	566.7	597.6	650.2	702.9	750.4	798.0	743.2
82.5°	200.1	204.5	228.1	251.7	284.1	316.4	363.6	410.8	453.6	496.4	450.8
85°	20.6	23.4	31.9	40.4	58.1	75.8	104.4	133.2	161.3	189.5	158.9
87.5°	8.3	9.2	11.8	14.4	15.0	15.7	19.0	22.2	22.1	22.0	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P144221

CATALOG NUMBER: LDRL-5XQ-E01-E-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	299.5	299.6	299.7	299.7	299.7	299.8	300.0	299.8
5°	299.6	299.7	299.7	299.7	299.7	299.8	300.0	299.8
7.5°	299.4	299.3	299.3	299.4	299.6	299.6	299.7	299.6
10°	298.8	298.8	298.9	299.0	299.2	299.4	299.5	299.6
12.5°	298.5	298.5	298.6	298.8	298.9	299.0	299.2	299.4
15°	298.5	298.5	298.5	298.7	298.8	299.0	299.2	299.4
17.5°	298.9	298.8	298.7	298.8	298.9	299.2	299.4	299.6
20°	300.0	299.9	299.8	299.8	299.8	300.0	300.2	300.2
22.5°	302.7	302.2	301.6	301.6	301.4	301.5	301.6	301.7
25°	306.9	306.1	305.2	305.0	304.8	304.6	304.6	304.8
27.5°	313.4	312.4	311.5	310.9	310.4	310.1	309.8	309.9
30°	321.4	320.3	319.2	318.3	317.4	317.0	316.6	316.7
32.5°	331.5	330.2	329.0	327.8	326.5	326.0	325.4	325.5
35°	344.4	343.0	341.5	340.5	339.5	338.6	337.7	338.4
37.5°	361.4	360.0	358.6	358.0	357.3	356.5	355.8	355.9
40°	384.2	382.8	381.3	380.8	380.2	379.2	378.2	378.4
42.5°	413.1	411.0	408.8	407.8	406.8	406.3	405.8	406.1
45°	444.3	442.2	440.0	439.1	438.2	437.0	435.8	436.9
47.5°	478.4	475.6	472.9	471.4	469.8	470.2	470.6	469.8
50°	516.7	512.1	507.5	505.7	504.0	504.0	504.0	503.8
52.5°	555.3	549.0	542.8	541.2	539.6	539.3	538.9	538.5
55°	596.0	588.2	580.4	577.6	574.8	575.2	575.6	576.7
57.5°	637.8	627.6	617.4	614.1	610.8	611.1	611.4	613.2
60°	681.3	668.2	655.0	651.3	647.7	648.7	649.7	650.8
62.5°	731.1	715.1	699.2	694.3	689.4	690.6	691.9	694.9
65°	793.6	773.7	753.8	748.7	743.6	744.2	744.8	749.9
67.5°	879.1	852.6	826.0	821.4	816.7	817.5	818.4	826.6
70°	988.2	948.9	909.6	890.3	871.0	867.9	864.9	869.3
72°	1011.6	956.2	900.6	872.1	843.6	839.1	834.6	835.0
72.5°	1000.9	944.8	888.6	860.9	833.2	829.6	825.9	825.2
75°	945.4	890.4	835.6	806.9	778.3	771.4	764.4	764.4
77.5°	878.8	809.6	740.4	709.6	678.6	671.4	664.2	658.6
80°	688.4	626.4	564.3	533.0	501.6	490.1	478.5	471.6
82.5°	405.2	348.2	291.2	251.3	211.5	199.5	187.6	170.9
85°	128.4	98.8	69.2	54.0	38.8	31.4	23.9	20.9
87.5°	21.3	17.4	13.4	12.9	12.4	9.8	7.1	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)