

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: PORTFOLIO

Report Number: P247835

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509730 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11054.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

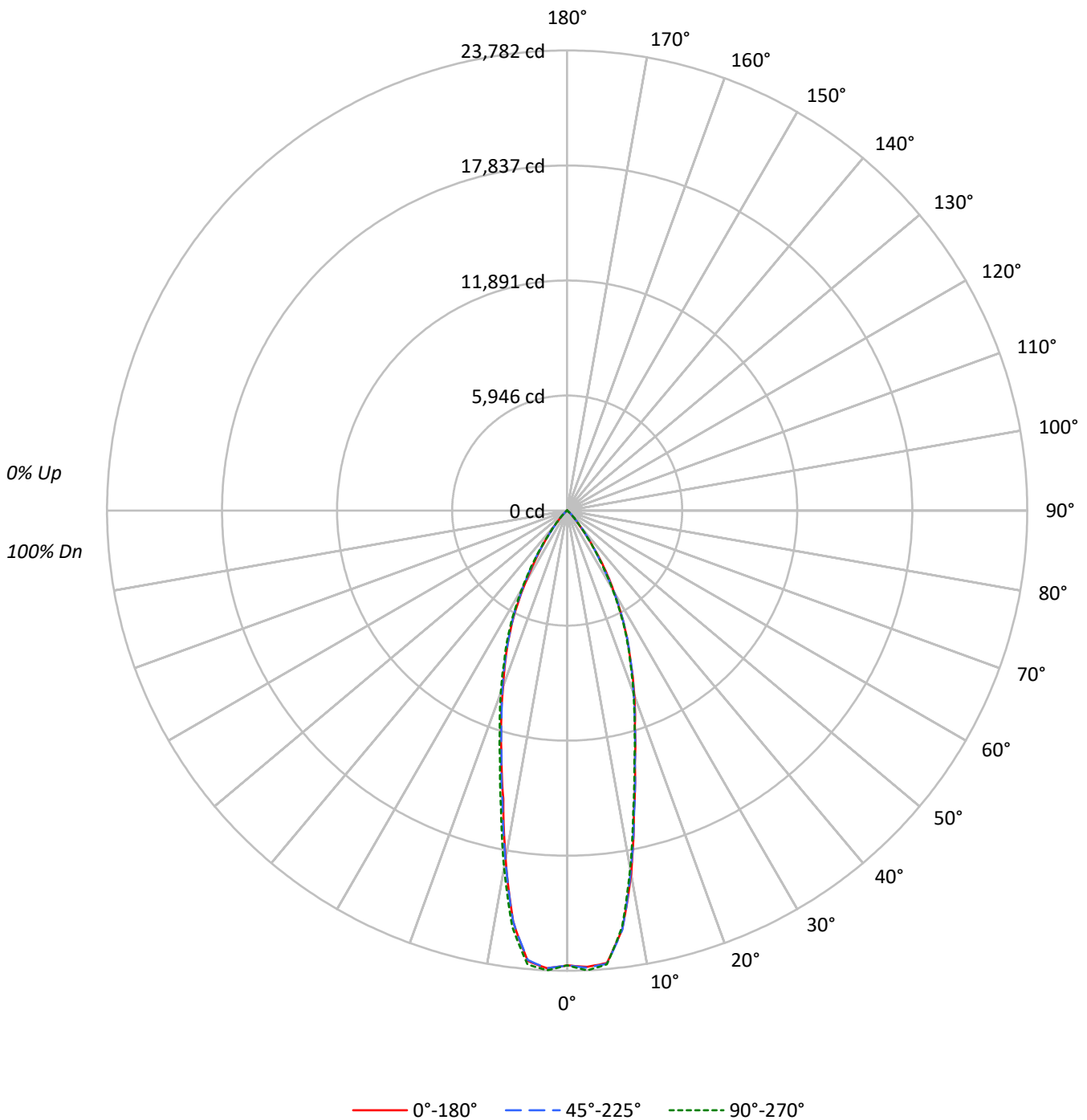
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	90	90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85	85	85	85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80	80	80	80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	76	76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	72	72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62	62	62	62			
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60	60	60	60			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2077.4	18.8
10°-20°	3764.6	34.1
20°-30°	3280.1	29.7
30°-40°	1562.4	14.1
40°-50°	324.6	2.9
50°-60°	25.8	0.2
60°-70°	10.0	0.1
70°-80°	4.4	0.0
80°-90°	4.6	0.0
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°-30°	9122.1	82.5
0°-40°	10684.5	96.7
0°-60°	11035.0	99.8
0°-90°	11054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11054.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23503	23503	23503	23503	23503	
5°	23476	23513	23537	23316	23370	###
15°	13543	13544	13405	13127	13096	3825
25°	7361	7354	7273	7055	7031	3346
35°	2566	2480	2457	2332	2249	1643
45°	368	407	377	338	349	325
55°	26	20	19	18	13	28
65°	7	11	14	4	3	10
75°	12	8	7	9	5	6
85°	4	4	8	5	11	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23502.8	23502.8	23502.8	23502.8	23502.8	23502.8	23502.8	23502.8	23502.8
2.5°	23605.1	23609.6	23646.4	23751.7	23781.9	23758.4	23678.8	23650.1	23678.8
5°	23475.5	23460.0	23513.1	23591.2	23537.4	23440.9	23316.4	23287.7	23370.2
7.5°	21813.7	21803.4	21853.5	21847.6	21705.4	21523.4	21419.6	21337.8	21408.5
10°	19055.8	18963.7	18930.5	18988.7	18754.5	18503.3	18353.7	18409.0	18287.5
12.5°	15950.9	15938.4	15997.3	15925.8	15790.3	15636.3	15452.9	15354.2	15265.8
15°	13542.9	13576.0	13544.3	13514.9	13405.1	13289.5	13127.4	13058.9	13096.5
17.5°	11652.7	11643.1	11609.9	11659.3	11574.6	11408.8	11266.7	11291.0	11332.2
20°	10164.0	10123.4	10045.4	10066.0	10025.5	9896.6	9766.9	9680.0	9694.7
22.5°	8629.6	8664.9	8655.3	8594.2	8530.9	8436.6	8373.2	8259.8	8312.8
25°	7361.1	7367.0	7353.7	7344.9	7273.4	7182.8	7054.7	7027.4	7031.1
27.5°	6063.2	6091.2	6080.1	6042.5	5970.3	5894.5	5814.9	5752.3	5746.4
30°	4799.8	4839.6	4760.8	4707.0	4665.8	4652.5	4519.2	4425.6	4301.2
32.5°	3714.1	3655.1	3403.9	3404.7	3485.0	3516.6	3389.2	3177.1	3142.4
35°	2566.4	2556.1	2479.5	2455.9	2456.6	2425.7	2332.2	2249.7	2248.9
37.5°	1608.8	1647.1	1689.8	1680.2	1586.0	1490.2	1445.3	1493.9	1507.9
40°	965.7	1015.8	1067.4	1073.3	1004.0	893.5	879.5	924.5	966.5
42.5°	604.8	626.1	660.8	667.4	618.0	577.5	551.7	584.1	584.1
45°	367.6	387.5	406.6	408.1	377.2	343.3	338.1	350.6	349.2
47.5°	216.6	217.3	224.7	219.5	209.2	193.0	186.4	193.0	194.5
50°	101.7	99.4	103.1	112.7	100.2	84.7	86.2	81.0	72.9
52.5°	24.3	22.1	26.5	28.7	28.0	29.5	28.0	28.0	21.4
55°	25.8	16.2	19.9	20.6	19.2	20.6	17.7	11.8	13.3
57.5°	17.7	18.4	18.4	20.6	17.7	22.1	18.4	13.3	14.7
60°	17.7	12.5	11.8	19.9	16.2	11.0	12.5	16.9	4.4
62.5°	13.3	12.5	14.0	19.9	14.0	16.2	12.5	19.9	13.3
65°	6.6	11.0	11.0	11.0	14.0	12.5	4.4	8.8	2.9
67.5°	9.6	5.2	4.4	9.6	11.8	8.1	3.7	3.7	6.6
70°	2.9	4.4	2.2	5.2	5.9	5.2	3.7	0.7	0.0
72.5°	5.2	2.2	5.2	4.4	7.4	5.2	4.4	3.7	2.9
75°	12.5	9.6	8.1	8.8	7.4	4.4	8.8	8.8	5.2
77.5°	0.0	0.0	1.5	0.0	0.0	0.0	0.7	0.0	0.0
80°	6.6	5.2	5.2	5.2	2.9	4.4	2.2	0.7	8.1
82.5°	6.6	8.1	8.1	3.7	9.6	5.9	5.2	1.5	8.1
85°	4.4	8.1	4.4	3.7	8.1	6.6	5.2	2.2	11.0
87.5°	0.0	4.4	4.4	2.9	4.4	1.5	3.7	2.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)