

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: P247608

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6401.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

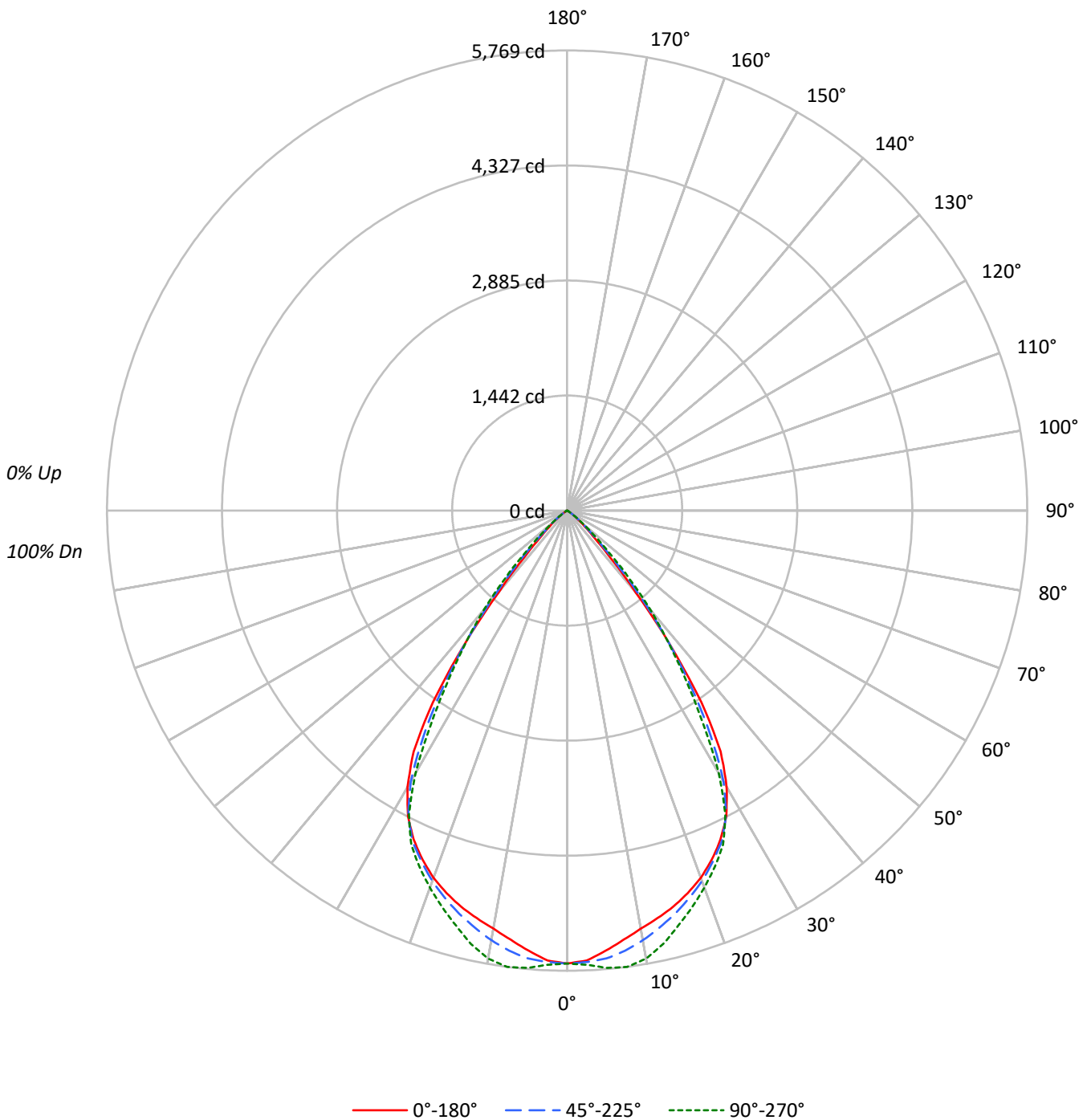
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175076	175076	175076
5°	171480	174488	178144
10°	166649	171289	178572
15°	164106	167024	171940
20°	160749	162229	165041
25°	154816	155919	157297
30°	142438	139678	135555
35°	110373	102833	97690
40°	53630	60852	65183
45°	20745	26702	32358
50°	9719	11106	12718
55°	4043	4355	4478
60°	1357	1283	1215
65°	168	255	255
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	8.3
10°-20°	1476.9	23.1
20°-30°	2081.1	32.5
30°-40°	1683.6	26.3
40°-50°	534.5	8.3
50°-60°	85.5	1.3
60°-70°	5.8	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4091.6	63.9
0°-40°	5775.3	90.2
0°-60°	6395.2	99.9
0°-90°	6401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5678	5678	5678	5678	5678	
5°	5540	5565	5637	5719	5755	522
15°	5140	5160	5232	5332	5386	1448
25°	4550	4558	4583	4608	4623	2078
35°	2932	2852	2732	2633	2595	1739
45°	476	514	612	699	742	443
55°	75	76	81	84	83	78
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5677.6	5677.6	5677.6	5677.6	5677.6
2.5°	5645.2	5650.9	5664.8	5691.5	5699.6
5°	5539.8	5565.3	5637.0	5719.2	5755.1
7.5°	5426.4	5460.0	5565.3	5704.2	5769.0
10°	5322.2	5358.1	5470.4	5618.5	5703.0
12.5°	5234.2	5262.0	5353.5	5486.6	5565.3
15°	5140.5	5160.2	5231.9	5331.5	5385.9
17.5°	5028.2	5045.6	5093.0	5170.6	5212.2
20°	4898.6	4903.2	4943.7	4993.5	5029.4
22.5°	4737.7	4742.3	4765.4	4812.9	4837.2
25°	4550.2	4558.3	4582.6	4608.0	4623.1
27.5°	4319.8	4323.3	4311.7	4290.9	4295.5
30°	4000.3	3987.6	3922.8	3833.7	3807.0
32.5°	3581.3	3496.8	3356.8	3231.8	3180.8
35°	2932.0	2852.1	2731.7	2633.3	2595.1
37.5°	2106.7	2112.4	2104.3	2082.4	2087.0
40°	1332.3	1385.5	1511.7	1593.9	1619.3
42.5°	799.8	857.7	996.6	1107.7	1143.6
45°	475.7	513.9	612.3	699.1	742.0
47.5°	305.6	324.1	372.7	423.6	448.0
50°	202.6	211.8	231.5	254.7	265.1
52.5°	129.6	133.1	142.4	150.5	158.6
55°	75.2	76.4	81.0	84.5	83.3
57.5°	39.4	39.4	39.4	39.4	39.4
60°	22.0	20.8	20.8	20.8	19.7
62.5°	10.4	10.4	10.4	9.3	9.3
65°	2.3	3.5	3.5	3.5	3.5
67.5°	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)