

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: P247176

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9762.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

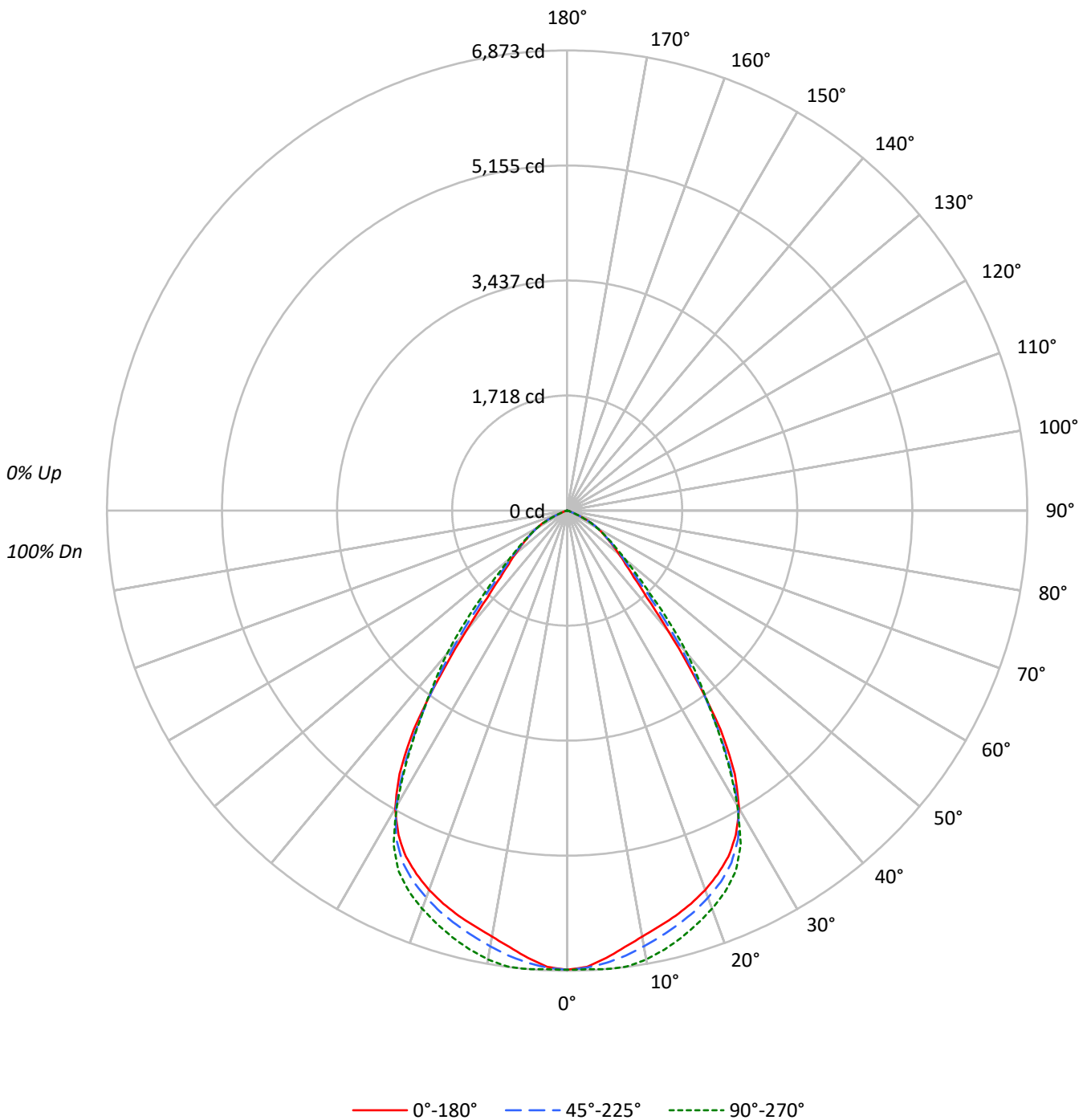
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	211482	211482	211482
5°	207597	209853	212757
10°	202279	206882	213150
15°	199985	204384	210741
20°	197896	201886	207659
25°	194002	197507	202471
30°	182912	182089	180975
35°	150460	145273	144445
40°	94214	103952	112385
45°	61480	68549	75971
50°	48477	50808	54142
55°	39515	40203	41445
60°	32341	32125	31983
65°	20948	20357	19255
70°	7204	6681	6158
75°	2478	2347	2204
80°	1030	817	817
85°	425	425	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.4	6.6
10°-20°	1810.1	18.5
20°-30°	2647.3	27.1
30°-40°	2398.7	24.6
40°-50°	1275.5	13.1
50°-60°	680.7	7.0
60°-70°	277.6	2.8
70°-80°	28.0	0.3
80°-90°	1.6	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°	5099.8	52.2
0°-40°	7498.5	76.8
0°-60°	9454.7	96.9
0°-90°	9762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6858	6858	6858	6858	6858	
5°	6707	6724	6780	6841	6873	632
15°	6264	6300	6402	6534	6601	1767
25°	5702	5726	5805	5904	5951	2606
35°	3997	3941	3859	3830	3837	2402
45°	1410	1452	1572	1697	1742	1153
55°	735	734	748	758	771	666
65°	287	286	279	263	264	286
75°	21	21	20	18	18	30
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6858.2	6858.2	6858.2	6858.2	6858.2
2.5°	6821.2	6820.1	6832.8	6847.8	6855.9
5°	6706.6	6724.0	6779.5	6840.9	6873.3
7.5°	6577.0	6609.4	6705.5	6810.8	6867.5
10°	6460.1	6501.7	6607.1	6744.8	6807.3
12.5°	6359.4	6399.9	6506.4	6647.6	6715.9
15°	6264.4	6300.3	6402.2	6534.1	6601.3
17.5°	6154.5	6189.2	6287.6	6412.6	6470.5
20°	6030.6	6059.6	6152.2	6269.1	6328.1
22.5°	5876.7	5907.9	6001.7	6109.3	6164.9
25°	5701.9	5726.2	5804.9	5904.5	5950.8
27.5°	5458.8	5480.8	5527.1	5580.4	5615.1
30°	5137.0	5131.2	5113.9	5097.7	5082.6
32.5°	4662.5	4606.9	4522.4	4469.1	4471.5
35°	3996.9	3941.3	3859.1	3830.2	3837.1
37.5°	3123.0	3164.6	3198.2	3253.8	3280.4
40°	2340.5	2412.3	2582.4	2730.6	2791.9
42.5°	1759.4	1830.0	2008.3	2164.5	2249.0
45°	1409.8	1451.5	1571.9	1696.9	1742.1
47.5°	1180.7	1199.2	1268.6	1348.5	1387.9
50°	1010.5	1022.1	1059.1	1103.1	1128.6
52.5°	865.8	870.4	889.0	914.4	930.6
55°	735.0	733.9	747.8	758.2	770.9
57.5°	621.6	620.4	620.4	623.9	632.0
60°	524.4	520.9	520.9	516.2	518.6
62.5°	427.1	423.6	415.5	409.8	407.4
65°	287.1	285.9	279.0	262.8	263.9
67.5°	149.3	148.2	141.2	136.6	134.3
70°	79.9	77.6	74.1	70.6	68.3
72.5°	40.5	39.4	38.2	35.9	35.9
75°	20.8	20.8	19.7	18.5	18.5
77.5°	10.4	10.4	9.3	9.3	9.3
80°	5.8	5.8	4.6	4.6	4.6
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
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)