

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: P247589

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247589
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: LSR8B120D010 EC8B120840 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8093.0 lumens
Efficiency: N/A
Efficacy: 68.4 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

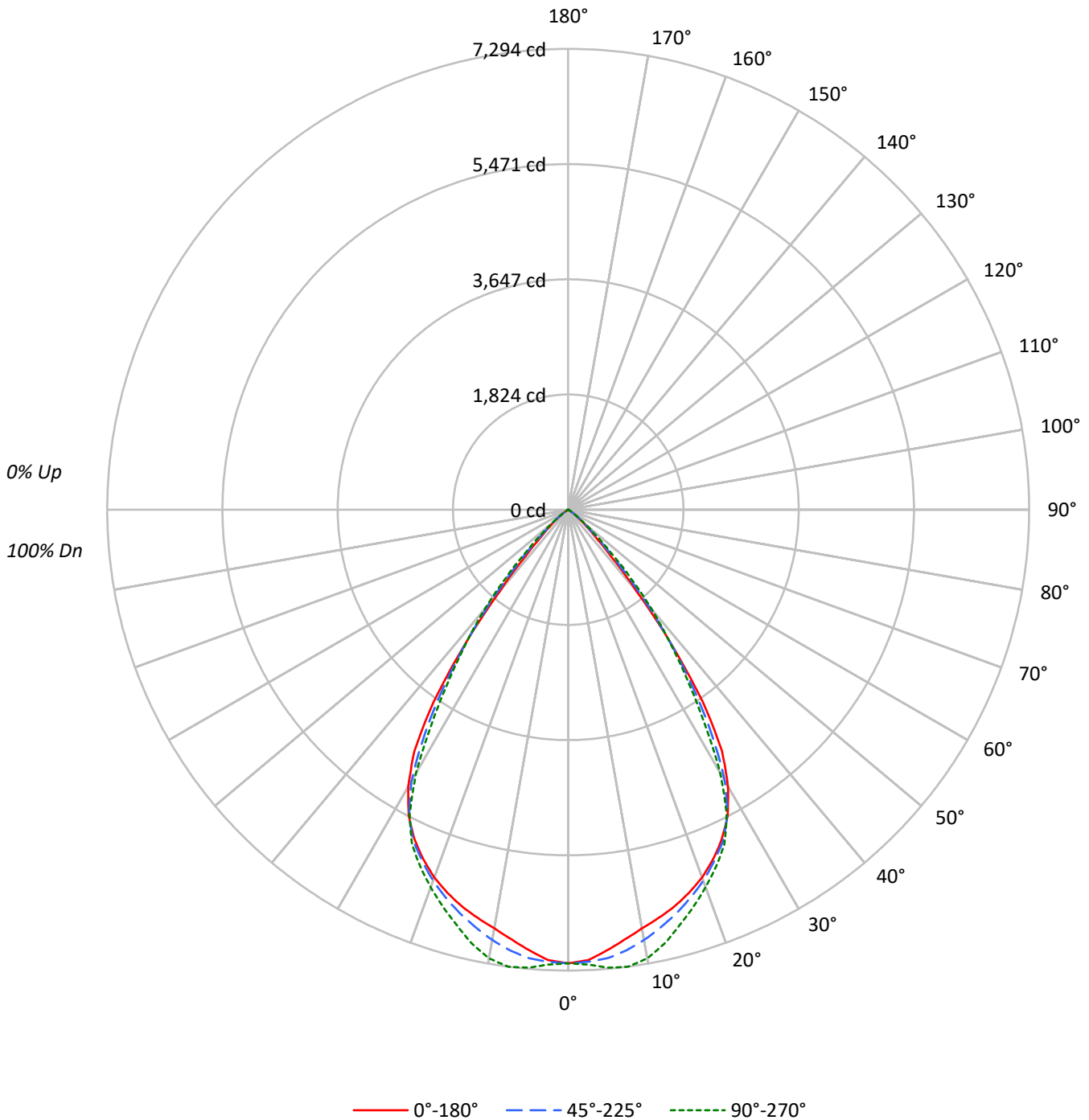
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	221352	221352	221352
5°	216809	220613	225234
10°	210699	216566	225775
15°	207484	211175	217387
20°	203238	205112	208666
25°	195737	197132	198874
30°	180092	176599	171389
35°	139547	130015	123514
40°	67808	76937	82416
45°	26231	33762	40910
50°	12286	14042	16076
55°	5113	5505	5666
60°	1714	1622	1536
65°	212	321	321
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°	674.8	8.3
10°-20°	1867.3	23.1
20°-30°	2631.1	32.5
30°-40°	2128.7	26.3
40°-50°	675.8	8.3
50°-60°	108.0	1.3
60°-70°	7.3	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°	5173.2	63.9
0°-40°	7301.9	90.2
0°-60°	8085.7	99.9
0°-90°	8093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7178	7178	7178	7178	7178	
5°	7004	7036	7127	7231	7276	660
15°	6499	6524	6615	6741	6810	1830
25°	5753	5763	5794	5826	5845	2627
35°	3707	3606	3454	3329	3281	2198
45°	602	650	774	884	938	561
55°	95	97	102	107	105	99
65°	3	4	4	4	4	7
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°	7178.3	7178.3	7178.3	7178.3	7178.3
2.5°	7137.4	7144.7	7162.2	7195.9	7206.1
5°	7004.2	7036.4	7127.1	7231.0	7276.4
7.5°	6860.8	6903.2	7036.4	7212.0	7293.9
10°	6729.0	6774.4	6916.4	7103.7	7210.5
12.5°	6617.8	6652.9	6768.6	6936.9	7036.4
15°	6499.3	6524.2	6614.9	6740.8	6809.5
17.5°	6357.3	6379.3	6439.3	6537.3	6590.0
20°	6193.4	6199.3	6250.5	6313.4	6358.8
22.5°	5990.0	5995.8	6025.1	6085.1	6115.9
25°	5752.9	5763.2	5793.9	5826.1	5845.1
27.5°	5461.7	5466.1	5451.4	5425.1	5430.9
30°	5057.8	5041.7	4959.7	4847.0	4813.4
32.5°	4528.0	4421.2	4244.1	4086.0	4021.6
35°	3707.0	3606.0	3453.8	3329.4	3281.1
37.5°	2663.5	2670.8	2660.6	2632.8	2638.6
40°	1684.5	1751.8	1911.3	2015.2	2047.4
42.5°	1011.3	1084.4	1260.0	1400.5	1445.9
45°	601.5	649.8	774.2	883.9	938.1
47.5°	386.4	409.8	471.2	535.6	566.4
50°	256.1	267.8	292.7	322.0	335.1
52.5°	163.9	168.3	180.0	190.3	200.5
55°	95.1	96.6	102.4	106.8	105.4
57.5°	49.8	49.8	49.8	49.8	49.8
60°	27.8	26.3	26.3	26.3	24.9
62.5°	13.2	13.2	13.2	11.7	11.7
65°	2.9	4.4	4.4	4.4	4.4
67.5°	0.0	0.0	0.0	0.0	1.5
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)