

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: P247676

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10817.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

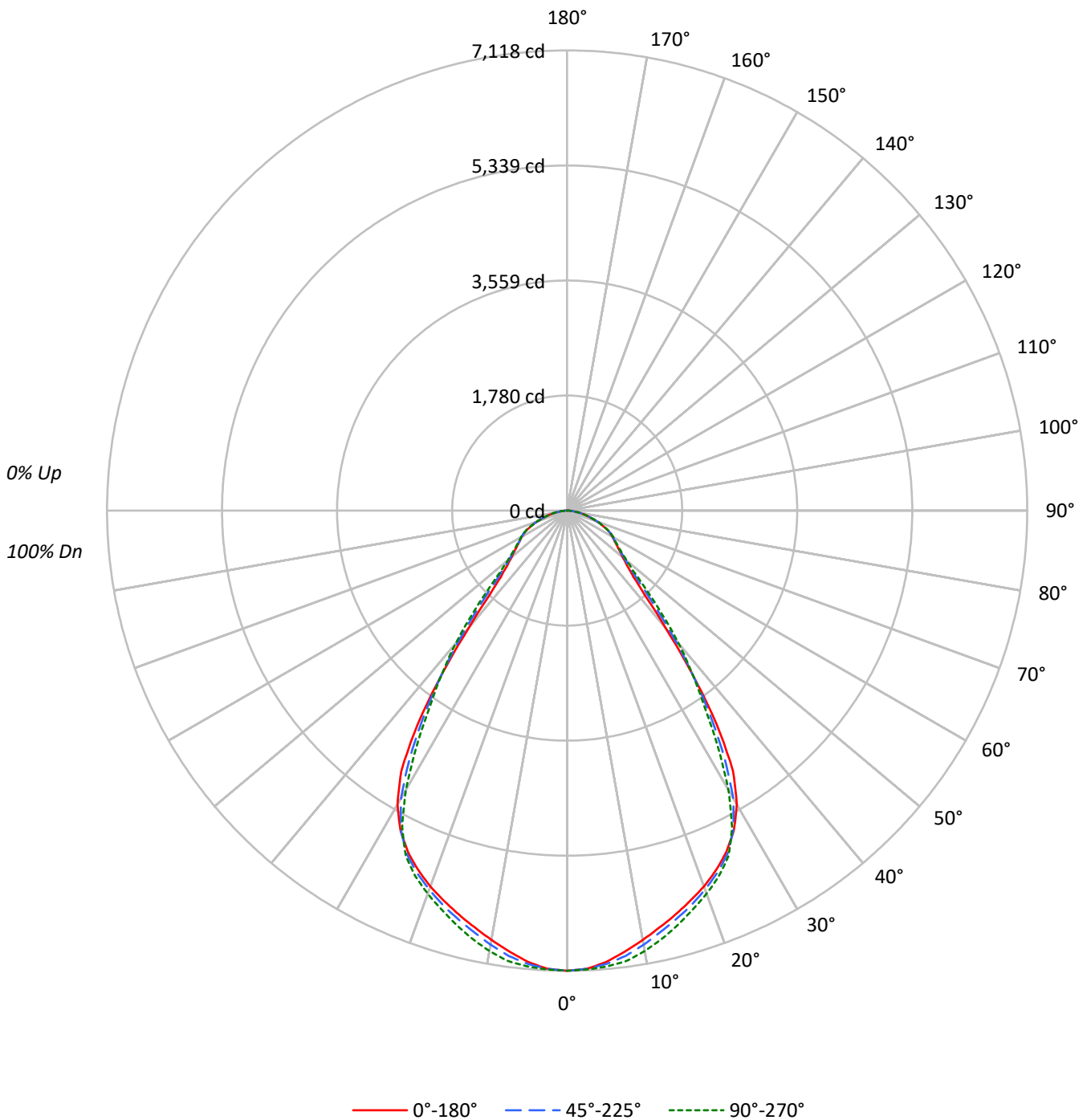
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	219502	219502	219502
5°	216821	217867	219106
10°	211149	213498	216629
15°	206539	208736	211727
20°	202999	204718	206976
25°	198228	199463	200780
30°	186892	182887	177503
35°	151717	144896	139344
40°	94879	102978	107957
45°	63220	69160	75047
50°	53897	55514	57433
55°	50391	51063	51799
60°	49942	50251	50713
65°	48690	49237	49602
70°	44169	44503	44845
75°	38566	39007	39162
80°	32852	32852	33740
85°	26536	26536	26536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.1	6.1
10°-20°	1845.5	17.1
20°-30°	2667.9	24.7
30°-40°	2387.6	22.1
40°-50°	1292.1	11.9
50°-60°	861.2	8.0
60°-70°	659.5	6.1
70°-80°	349.5	3.2
80°-90°	88.4	0.8
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°	5178.6	47.9
0°-40°	7566.2	69.9
0°-60°	9719.5	89.9
0°-90°	10817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7118	7118	7118	7118	7118	
5°	7005	7008	7038	7066	7078	660
15°	6470	6482	6538	6602	6632	1825
25°	5826	5840	5862	5890	5901	2666
35°	4030	3989	3849	3738	3702	2440
45°	1450	1492	1586	1685	1721	1193
55°	937	941	950	960	964	848
65°	667	670	675	680	680	654
75°	324	324	327	329	329	348
85°	75	75	75	76	75	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7118.3	7118.3	7118.3	7118.3	7118.3
2.5°	7094.6	7092.1	7093.4	7100.8	7104.6
5°	7004.6	7008.4	7038.4	7065.9	7078.4
7.5°	6878.4	6894.6	6945.9	6999.6	7027.1
10°	6743.4	6759.7	6818.4	6894.6	6918.4
12.5°	6604.7	6624.7	6677.2	6754.7	6783.4
15°	6469.7	6482.2	6538.5	6602.2	6632.2
17.5°	6331.0	6343.5	6394.8	6444.8	6468.5
20°	6186.1	6199.8	6238.5	6281.0	6307.3
22.5°	6019.9	6033.6	6066.1	6103.6	6127.3
25°	5826.1	5839.9	5862.4	5889.9	5901.1
27.5°	5581.2	5590.0	5568.7	5546.2	5526.2
30°	5248.8	5221.3	5136.3	5027.6	4985.1
32.5°	4776.4	4687.7	4523.9	4391.5	4342.7
35°	4030.3	3989.1	3849.1	3737.9	3701.6
37.5°	3160.5	3188.0	3178.0	3170.5	3178.0
40°	2357.0	2420.7	2558.2	2651.9	2681.9
42.5°	1784.6	1845.8	2000.8	2130.8	2175.7
45°	1449.7	1492.2	1585.9	1684.6	1720.9
47.5°	1251.0	1274.7	1322.2	1374.7	1392.2
50°	1123.5	1133.5	1157.2	1187.2	1197.2
52.5°	1022.3	1027.3	1041.0	1057.3	1059.8
55°	937.3	941.0	949.8	959.8	963.5
57.5°	866.0	869.8	872.3	878.5	881.0
60°	809.8	809.8	814.8	819.8	822.3
62.5°	748.6	748.6	753.6	758.6	758.6
65°	667.3	669.8	674.8	679.8	679.8
67.5°	578.6	579.9	583.6	588.6	587.4
70°	489.9	489.9	493.6	496.1	497.4
72.5°	404.9	403.7	409.9	411.2	407.4
75°	323.7	323.7	327.4	328.7	328.7
77.5°	252.4	251.2	251.2	252.4	253.7
80°	185.0	186.2	185.0	187.5	190.0
82.5°	128.7	127.5	127.5	127.5	126.2
85°	75.0	75.0	75.0	76.2	75.0
87.5°	30.0	30.0	28.7	28.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)