

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: P247688

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247688  
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 EC8B100850 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11394.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

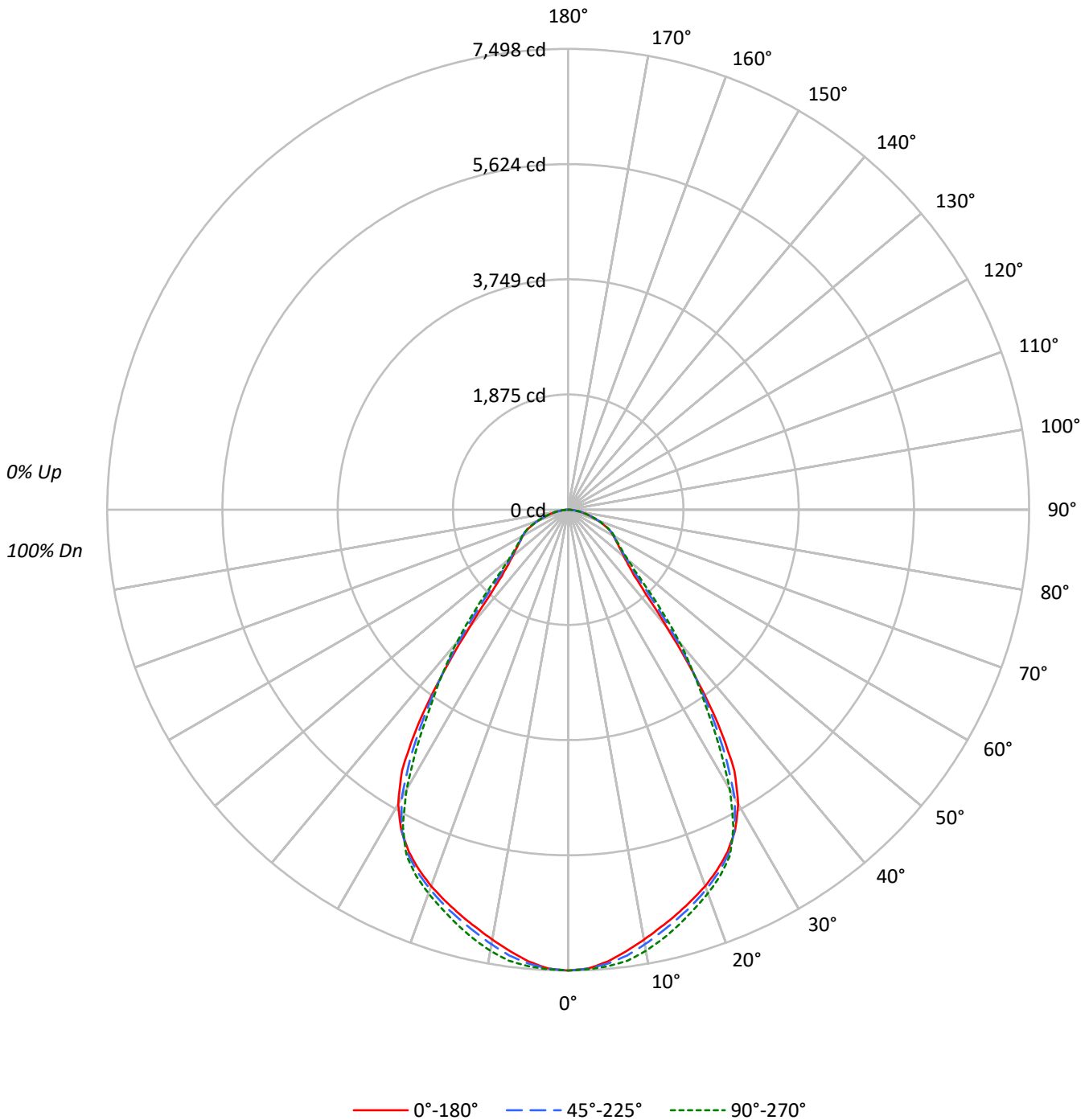
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	231214	231214	231214
5°	228389	229488	230791
10°	222412	224886	228183
15°	217560	219871	223022
20°	213825	215639	218015
25°	208803	210102	211490
30°	196862	192643	186971
35°	159811	152625	146778
40°	99938	108468	113713
45°	66591	72849	79046
50°	56771	58479	60498
55°	53079	53783	54563
60°	52607	52934	53421
65°	51287	51863	52250
70°	46522	46883	47234
75°	40616	41092	41247
80°	34592	34592	35534
85°	27951	27951	27951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	700.6	6.1
10°-20°	1943.9	17.1
20°-30°	2810.3	24.7
30°-40°	2515.0	22.1
40°-50°	1361.0	11.9
50°-60°	907.1	8.0
60°-70°	694.7	6.1
70°-80°	368.2	3.2
80°-90°	93.2	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°	5454.8	47.9
0°-40°	7969.8	69.9
0°-60°	10238.0	89.9
0°-90°	11394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7498	7498	7498	7498	7498	
5°	7378	7382	7414	7443	7456	695
15°	6815	6828	6887	6954	6986	1923
25°	6137	6151	6175	6204	6216	2808
35°	4245	4202	4054	3937	3899	2570
45°	1527	1572	1670	1774	1813	1257
55°	987	991	1000	1011	1015	893
65°	703	706	711	716	716	689
75°	341	341	345	346	346	366
85°	79	79	79	80	79	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7498.1	7498.1	7498.1	7498.1	7498.1
2.5°	7473.0	7470.4	7471.7	7479.6	7483.6
5°	7378.3	7382.2	7413.8	7442.8	7455.9
7.5°	7245.3	7262.4	7316.4	7373.0	7402.0
10°	7103.1	7120.3	7182.1	7262.4	7287.4
12.5°	6957.0	6978.1	7033.4	7115.0	7145.3
15°	6814.9	6828.0	6887.3	6954.4	6986.0
17.5°	6668.7	6681.9	6735.9	6788.5	6813.5
20°	6516.0	6530.5	6571.3	6616.1	6643.7
22.5°	6341.0	6355.4	6389.7	6429.2	6454.2
25°	6136.9	6151.4	6175.1	6204.1	6215.9
27.5°	5878.9	5888.1	5865.8	5842.1	5821.0
30°	5528.8	5499.8	5410.3	5295.8	5251.0
32.5°	5031.2	4937.7	4765.3	4625.7	4574.4
35°	4245.3	4201.9	4054.4	3937.3	3899.1
37.5°	3329.1	3358.1	3347.5	3339.6	3347.5
40°	2482.7	2549.8	2694.6	2793.3	2824.9
42.5°	1879.8	1944.3	2107.5	2244.4	2291.8
45°	1527.0	1571.7	1670.5	1774.5	1812.6
47.5°	1317.7	1342.7	1392.7	1448.0	1466.4
50°	1183.4	1193.9	1219.0	1250.6	1261.1
52.5°	1076.8	1082.1	1096.5	1113.7	1116.3
55°	987.3	991.2	1000.4	1011.0	1014.9
57.5°	912.2	916.2	918.8	925.4	928.0
60°	853.0	853.0	858.3	863.5	866.2
62.5°	788.5	788.5	793.8	799.0	799.0
65°	702.9	705.6	710.8	716.1	716.1
67.5°	609.5	610.8	614.7	620.0	618.7
70°	516.0	516.0	520.0	522.6	523.9
72.5°	426.5	425.2	431.8	433.1	429.1
75°	340.9	340.9	344.9	346.2	346.2
77.5°	265.9	264.6	264.6	265.9	267.2
80°	194.8	196.1	194.8	197.5	200.1
82.5°	135.6	134.3	134.3	134.3	133.0
85°	79.0	79.0	79.0	80.3	79.0
87.5°	31.6	31.6	30.3	30.3	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)