

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: P247684

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247684  
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 EC8B100840 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11175.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

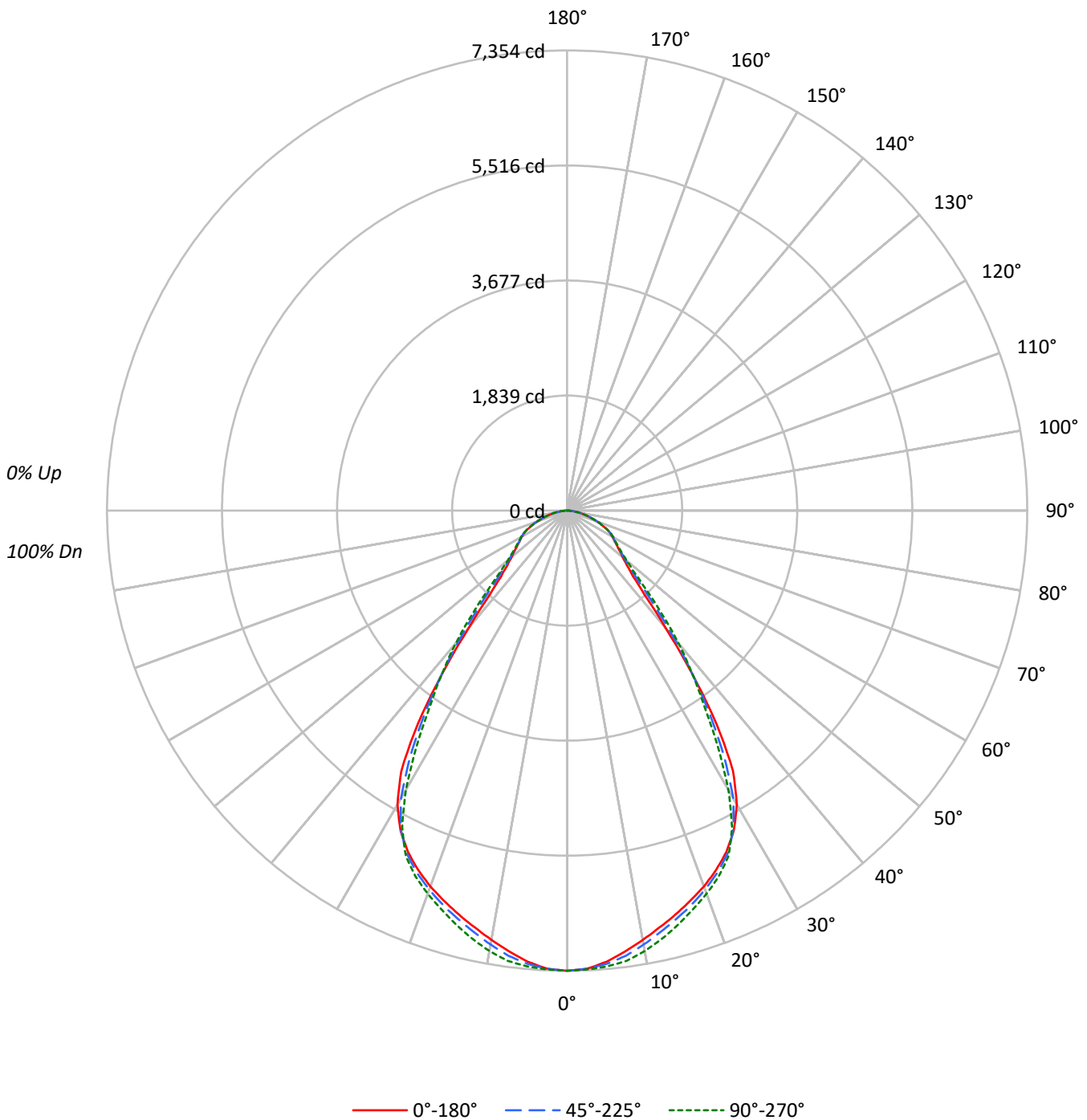
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	226767	226767	226767
5°	223996	225077	226355
10°	218138	220565	223799
15°	213378	215644	218734
20°	209716	211495	213825
25°	204791	206064	207425
30°	193077	188940	183378
35°	156739	149692	143955
40°	98018	106383	111528
45°	65309	71449	77528
50°	55682	57351	59333
55°	52057	52751	53514
60°	51595	51916	52391
65°	50302	50871	51243
70°	45630	45981	46324
75°	39841	40306	40461
80°	33935	33935	34841
85°	27420	27420	27420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.1	6.1
10°-20°	1906.6	17.1
20°-30°	2756.2	24.7
30°-40°	2466.7	22.1
40°-50°	1334.9	11.9
50°-60°	889.7	8.0
60°-70°	681.4	6.1
70°-80°	361.1	3.2
80°-90°	91.4	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°	5350.0	47.9
0°-40°	7816.6	69.9
0°-60°	10041.2	89.9
0°-90°	11175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7354	7354	7354	7354	7354	
5°	7236	7240	7271	7300	7313	682
15°	6684	6697	6755	6821	6852	1886
25°	6019	6033	6056	6085	6096	2754
35°	4164	4121	3976	3862	3824	2520
45°	1498	1542	1638	1740	1778	1232
55°	968	972	981	992	995	876
65°	689	692	697	702	702	676
75°	334	334	338	340	340	359
85°	78	78	78	79	78	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7353.9	7353.9	7353.9	7353.9	7353.9
2.5°	7329.4	7326.8	7328.1	7335.9	7339.7
5°	7236.4	7240.3	7271.3	7299.7	7312.6
7.5°	7106.0	7122.8	7175.8	7231.3	7259.7
10°	6966.6	6983.4	7044.1	7122.8	7147.4
12.5°	6823.3	6844.0	6898.2	6978.2	7007.9
15°	6683.9	6696.8	6754.9	6820.7	6851.7
17.5°	6540.6	6553.5	6606.4	6658.0	6682.6
20°	6390.8	6405.0	6445.0	6488.9	6516.0
22.5°	6219.1	6233.3	6266.9	6305.6	6330.1
25°	6019.0	6033.2	6056.4	6084.8	6096.4
27.5°	5765.9	5775.0	5753.0	5729.8	5709.1
30°	5422.5	5394.1	5306.3	5194.0	5150.1
32.5°	4934.5	4842.8	4673.7	4536.8	4486.5
35°	4163.7	4121.1	3976.5	3861.6	3824.1
37.5°	3265.1	3293.5	3283.2	3275.4	3283.2
40°	2435.0	2500.8	2642.8	2739.7	2770.6
42.5°	1843.6	1906.9	2067.0	2201.3	2247.8
45°	1497.6	1541.5	1638.4	1740.4	1777.8
47.5°	1292.4	1316.9	1366.0	1420.2	1438.3
50°	1160.7	1171.0	1195.5	1226.5	1236.8
52.5°	1056.1	1061.3	1075.5	1092.2	1094.8
55°	968.3	972.2	981.2	991.5	995.4
57.5°	894.7	898.6	901.2	907.6	910.2
60°	836.6	836.6	841.8	846.9	849.5
62.5°	773.4	773.4	778.5	783.7	783.7
65°	689.4	692.0	697.2	702.3	702.3
67.5°	597.8	599.1	602.9	608.1	606.8
70°	506.1	506.1	510.0	512.6	513.8
72.5°	418.3	417.0	423.5	424.8	420.9
75°	334.4	334.4	338.3	339.6	339.6
77.5°	260.8	259.5	259.5	260.8	262.1
80°	191.1	192.4	191.1	193.7	196.2
82.5°	133.0	131.7	131.7	131.7	130.4
85°	77.5	77.5	77.5	78.8	77.5
87.5°	31.0	31.0	29.7	29.7	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)