

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: P247685

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247685  
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: LSR8B120D010 EC8B120840 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: 12668.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

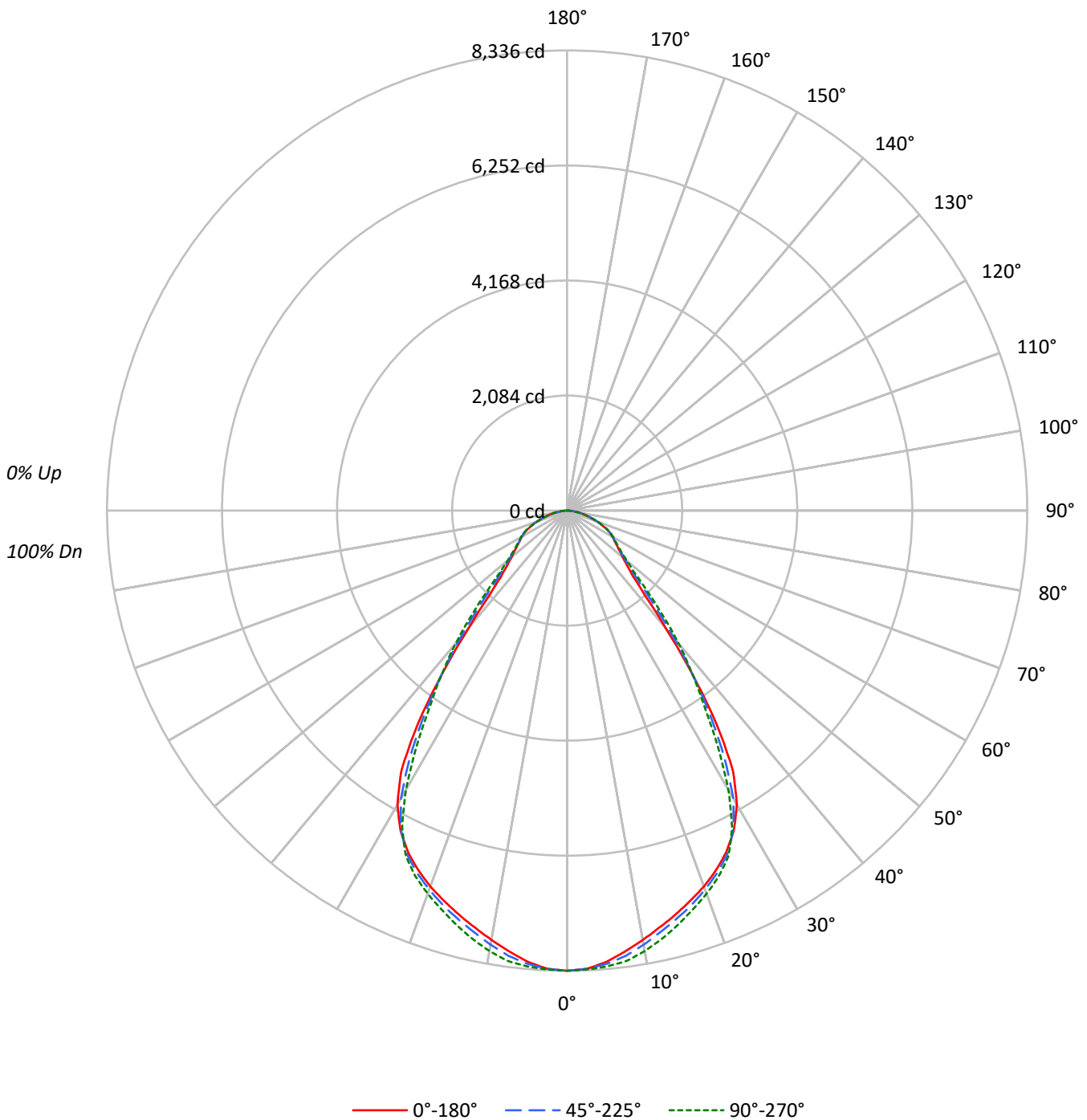
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	257064	257064	257064
5°	253923	255148	256597
10°	247284	250033	253699
15°	241883	244452	247958
20°	237734	239752	242394
25°	232150	233596	235137
30°	218871	214181	207876
35°	177681	169692	163191
40°	111113	120597	126430
45°	74035	80995	87885
50°	63118	65018	67263
55°	59014	59799	60664
60°	58490	58848	59391
65°	57022	57664	58095
70°	51724	52121	52518
75°	45167	45691	45858
80°	38464	38464	39511
85°	31064	31064	31064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	779.0	6.1
10°-20°	2161.3	17.1
20°-30°	3124.5	24.7
30°-40°	2796.2	22.1
40°-50°	1513.2	11.9
50°-60°	1008.6	8.0
60°-70°	772.4	6.1
70°-80°	409.3	3.2
80°-90°	103.6	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°	6064.7	47.9
0°-40°	8860.9	69.9
0°-60°	11382.7	89.9
0°-90°	12668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8336	8336	8336	8336	8336	
5°	8203	8208	8243	8275	8290	773
15°	7577	7592	7657	7732	7767	2138
25°	6823	6839	6866	6898	6911	3122
35°	4720	4672	4508	4378	4335	2857
45°	1698	1748	1857	1973	2015	1397
55°	1098	1102	1112	1124	1128	993
65°	782	784	790	796	796	766
75°	379	379	384	385	385	407
85°	88	88	88	89	88	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8336.4	8336.4	8336.4	8336.4	8336.4
2.5°	8308.6	8305.7	8307.2	8315.9	8320.3
5°	8203.2	8207.6	8242.8	8275.0	8289.6
7.5°	8055.4	8074.5	8134.5	8197.4	8229.6
10°	7897.4	7916.4	7985.2	8074.5	8102.3
12.5°	7734.9	7758.3	7819.8	7910.5	7944.2
15°	7576.8	7591.5	7657.3	7732.0	7767.1
17.5°	7414.4	7429.0	7489.0	7547.6	7575.4
20°	7244.6	7260.7	7306.1	7355.8	7386.6
22.5°	7050.0	7066.1	7104.1	7148.0	7175.8
25°	6823.1	6839.2	6865.6	6897.8	6910.9
27.5°	6536.3	6546.5	6521.6	6495.3	6471.9
30°	6146.9	6114.8	6015.2	5887.9	5838.1
32.5°	5593.7	5489.8	5298.1	5142.9	5085.9
35°	4720.0	4671.7	4507.8	4377.5	4335.1
37.5°	3701.3	3733.5	3721.8	3713.0	3721.8
40°	2760.3	2834.9	2995.9	3105.7	3140.8
42.5°	2090.0	2161.7	2343.2	2495.4	2548.1
45°	1697.7	1747.5	1857.3	1972.9	2015.3
47.5°	1465.0	1492.8	1548.4	1609.9	1630.4
50°	1315.7	1327.4	1355.3	1390.4	1402.1
52.5°	1197.2	1203.0	1219.1	1238.2	1241.1
55°	1097.7	1102.1	1112.3	1124.0	1128.4
57.5°	1014.2	1018.6	1021.6	1028.9	1031.8
60°	948.4	948.4	954.2	960.1	963.0
62.5°	876.7	876.7	882.5	888.4	888.4
65°	781.5	784.5	790.3	796.2	796.2
67.5°	677.6	679.1	683.5	689.3	687.9
70°	573.7	573.7	578.1	581.0	582.5
72.5°	474.2	472.7	480.0	481.5	477.1
75°	379.1	379.1	383.5	384.9	384.9
77.5°	295.6	294.2	294.2	295.6	297.1
80°	216.6	218.1	216.6	219.5	222.5
82.5°	150.7	149.3	149.3	149.3	147.8
85°	87.8	87.8	87.8	89.3	87.8
87.5°	35.1	35.1	33.7	33.7	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)