

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: P247209

Luminaire Tested: **LD8B120D010 ER8B120850 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120850 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13665.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

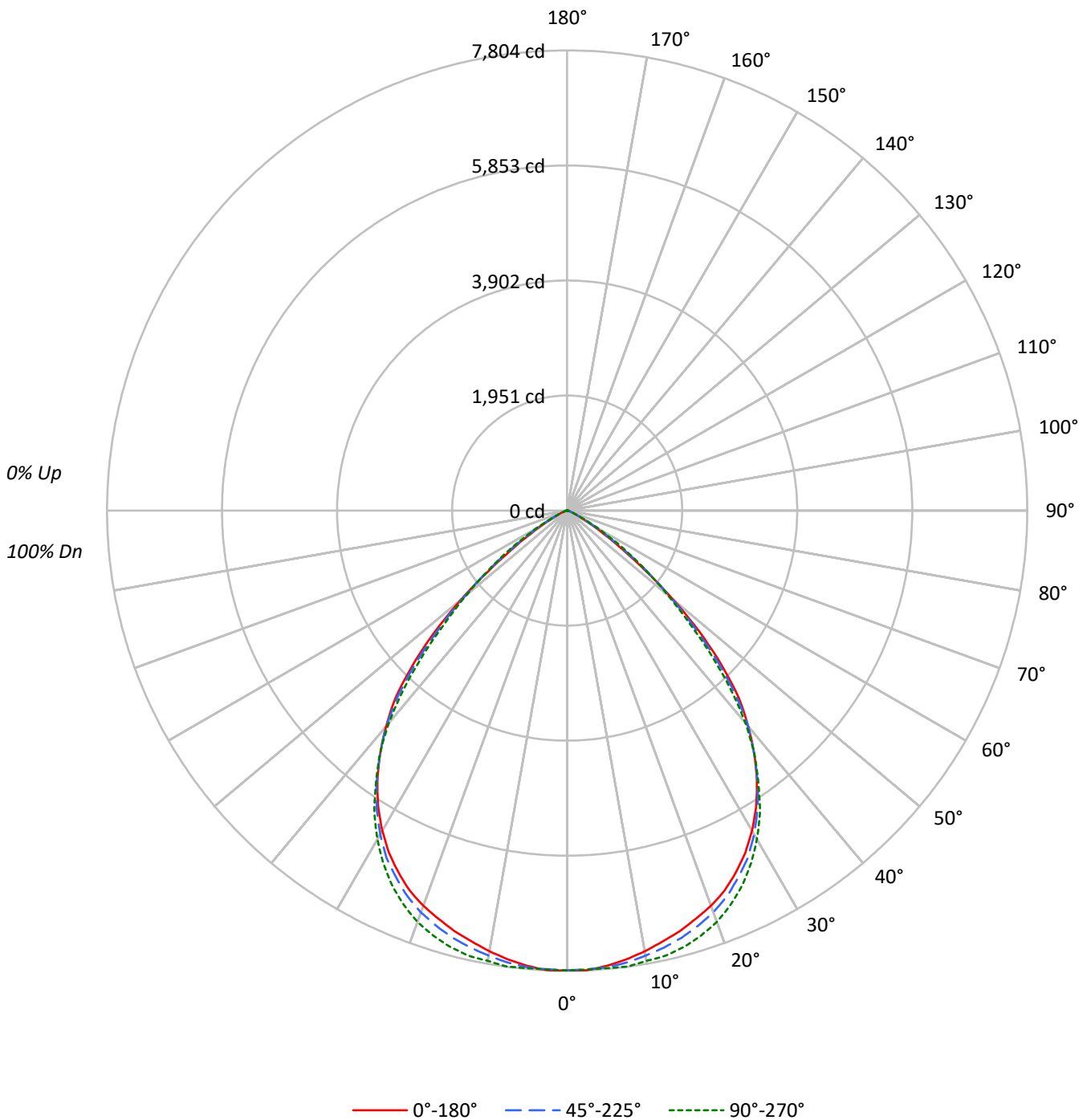
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	240471	240471	240471
5°	239866	240560	241067
10°	237592	239975	242781
15°	235712	239428	244571
20°	234065	237934	243664
25°	230401	233599	238778
30°	223265	225707	229161
35°	211154	212110	212897
40°	192337	192156	189572
45°	161711	156827	150063
50°	112319	109815	106879
55°	60089	66428	70358
60°	29079	33038	37269
65°	12740	12849	13389
70°	6861	6320	6185
75°	6041	5516	3908
80°	266	1065	0
85°	531	531	2654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.7	5.4
10°-20°	2118.5	15.5
20°-30°	3161.0	23.1
30°-40°	3500.8	25.6
40°-50°	2730.2	20.0
50°-60°	1144.4	8.4
60°-70°	229.2	1.7
70°-80°	36.5	0.3
80°-90°	5.7	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°	6018.3	44.0
0°-40°	9519.1	69.7
0°-60°	13393.6	98.0
0°-90°	13665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7798	7798	7798	7798	7798	
5°	7749	7755	7772	7792	7788	735
15°	7384	7416	7500	7610	7661	2083
25°	6772	6798	6866	6972	7018	3112
35°	5609	5600	5635	5662	5656	3486
45°	3708	3692	3596	3486	3441	2805
55°	1118	1161	1236	1285	1309	1089
65°	175	175	176	190	184	211
75°	51	46	46	36	33	41
85°	2	3	2	0	8	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7798.3	7798.3	7798.3	7798.3	7798.3
2.5°	7804.3	7789.4	7786.4	7795.3	7789.4
5°	7749.1	7755.1	7771.5	7792.4	7787.9
7.5°	7677.5	7687.9	7732.7	7786.4	7799.8
10°	7587.9	7610.3	7664.0	7725.2	7753.6
12.5°	7483.5	7513.3	7590.9	7679.0	7731.2
15°	7383.5	7416.3	7499.9	7610.3	7661.0
17.5°	7258.1	7301.4	7383.5	7502.9	7555.1
20°	7132.8	7171.6	7250.7	7367.1	7425.3
22.5°	6977.6	7006.0	7080.6	7179.1	7238.7
25°	6771.7	6798.5	6865.7	6971.6	7017.9
27.5°	6541.9	6573.2	6634.4	6707.5	6749.3
30°	6270.3	6295.7	6338.9	6404.6	6435.9
32.5°	5964.4	5965.9	6009.2	6058.4	6086.8
35°	5609.2	5600.3	5634.6	5661.5	5655.5
37.5°	5216.8	5218.3	5215.3	5218.3	5224.3
40°	4778.1	4757.2	4773.6	4736.3	4709.4
42.5°	4312.5	4291.6	4227.5	4145.4	4100.6
45°	3708.2	3691.7	3596.2	3485.8	3441.1
47.5°	3044.1	2993.4	2915.8	2821.8	2778.5
50°	2341.3	2335.3	2289.1	2266.7	2227.9
52.5°	1674.3	1674.3	1731.0	1722.0	1720.5
55°	1117.7	1160.9	1235.6	1284.8	1308.7
57.5°	728.2	768.5	831.2	883.4	907.3
60°	471.5	490.9	535.7	576.0	604.3
62.5°	292.5	308.9	332.8	358.1	368.6
65°	174.6	174.6	176.1	189.5	183.5
67.5°	117.9	122.4	116.4	116.4	131.3
70°	76.1	71.6	70.1	68.6	68.6
72.5°	49.2	41.8	44.8	47.8	41.8
75°	50.7	46.3	46.3	35.8	32.8
77.5°	17.9	19.4	13.4	10.4	9.0
80°	1.5	6.0	6.0	1.5	0.0
82.5°	17.9	16.4	13.4	20.9	13.4
85°	1.5	3.0	1.5	0.0	7.5
87.5°	0.0	0.0	0.0	1.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)