

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: P247544

Luminaire Tested: **LD8B100D010 ER8B100850 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100850 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11001.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

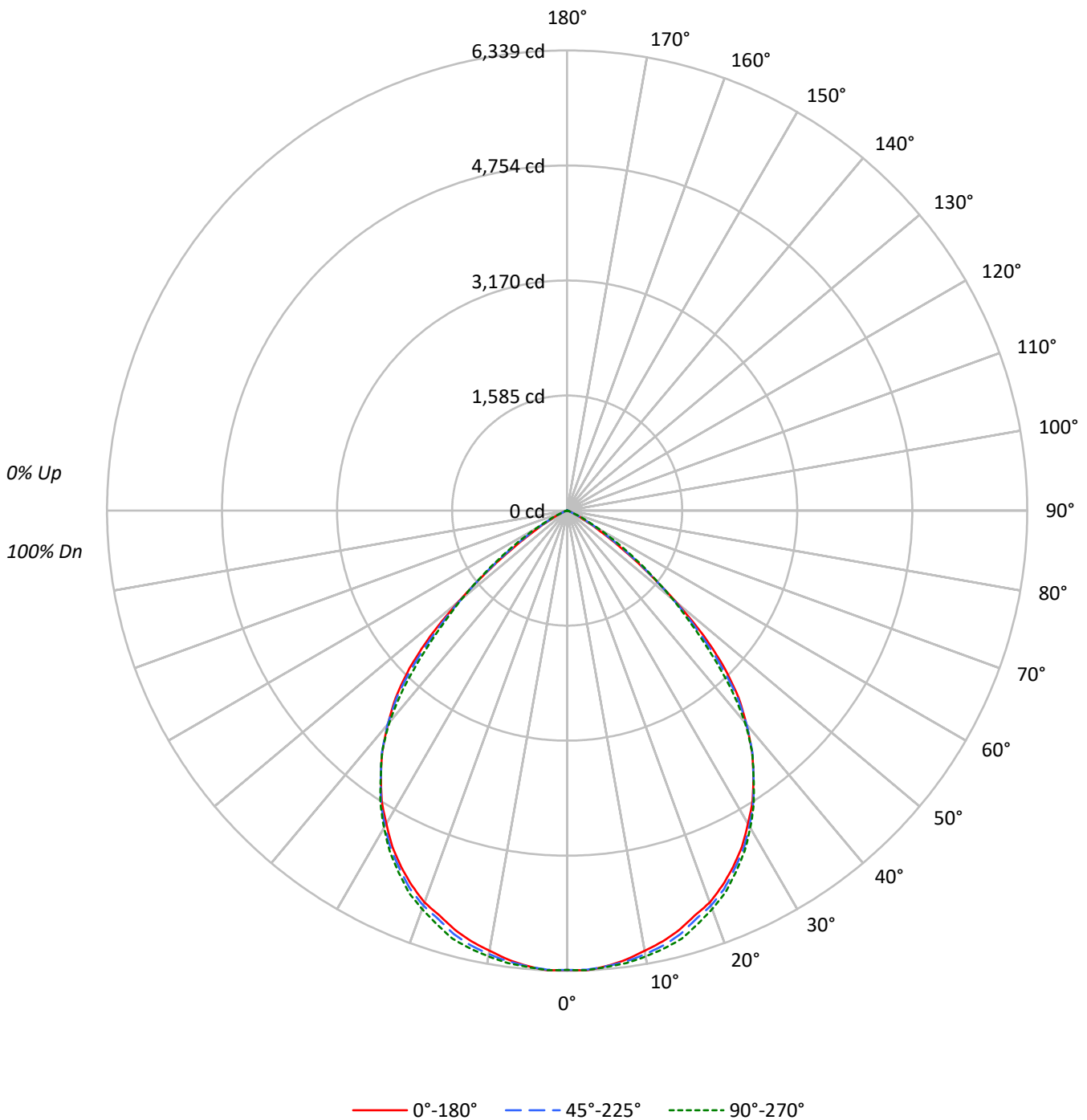
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	195151	195151	195151
5°	194918	195002	195286
10°	192804	194288	195277
15°	190817	192793	194893
20°	188498	190011	191651
25°	184155	185499	187024
30°	177396	178756	179693
35°	168322	168469	168518
40°	154664	154929	153339
45°	133802	129096	123357
50°	93835	91940	90741
55°	50950	55197	58804
60°	22486	27438	31089
65°	8646	10850	12966
70°	4391	3913	5103
75°	1406	2669	2347
80°	1172	231	1403
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	598.6	5.4
10°-20°	1700.1	15.5
20°-30°	2507.2	22.8
30°-40°	2790.7	25.4
40°-50°	2245.9	20.4
50°-60°	955.0	8.7
60°-70°	179.0	1.6
70°-80°	21.7	0.2
80°-90°	2.7	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°	4806.0	43.7
0°-40°	7596.6	69.1
0°-60°	10797.5	98.2
0°-90°	11001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6329	6329	6329	6329	6329	
5°	6297	6298	6300	6310	6309	597
15°	5977	6010	6039	6085	6105	1684
25°	5412	5432	5452	5484	5497	2487
35°	4471	4473	4475	4477	4477	2785
45°	3068	3043	2960	2871	2829	2307
55°	948	969	1027	1068	1094	903
65°	118	132	149	159	178	153
75°	12	14	22	21	20	19
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6328.6	6328.6	6328.6	6328.6	6328.6
2.5°	6339.2	6343.1	6330.0	6332.6	6336.5
5°	6297.0	6298.4	6299.7	6310.2	6308.9
7.5°	6237.8	6247.0	6262.8	6282.6	6287.8
10°	6157.5	6181.2	6204.9	6228.6	6236.5
12.5°	6078.5	6093.0	6135.1	6158.8	6178.6
15°	5977.2	6010.1	6039.1	6085.1	6104.9
17.5°	5848.2	5871.9	5899.5	5945.6	5973.2
20°	5744.2	5750.8	5790.3	5831.1	5840.3
22.5°	5590.2	5604.7	5645.5	5673.1	5696.8
25°	5412.5	5432.3	5452.0	5483.6	5496.8
27.5°	5217.7	5229.6	5257.2	5279.6	5291.4
30°	4982.1	5008.4	5020.3	5030.8	5046.6
32.5°	4753.1	4761.0	4771.5	4778.1	4786.0
35°	4471.4	4472.7	4475.3	4476.6	4476.6
37.5°	4183.1	4192.3	4189.7	4181.8	4185.7
40°	3842.2	3858.0	3848.8	3825.1	3809.3
42.5°	3498.7	3490.8	3459.2	3388.1	3355.2
45°	3068.2	3043.2	2960.3	2870.8	2828.7
47.5°	2552.3	2497.0	2427.2	2357.4	2329.8
50°	1956.0	1948.1	1916.5	1888.9	1891.5
52.5°	1401.8	1421.6	1428.2	1454.5	1467.6
55°	947.7	968.8	1026.7	1067.5	1093.8
57.5°	576.5	617.3	679.2	746.3	780.5
60°	364.6	388.3	444.9	488.3	504.1
62.5°	227.7	229.0	256.7	290.9	305.4
65°	118.5	131.6	148.7	159.3	177.7
67.5°	73.7	73.7	72.4	88.2	98.7
70°	48.7	42.1	43.4	52.7	56.6
72.5°	17.1	29.0	26.3	26.3	18.4
75°	11.8	14.5	22.4	21.1	19.7
77.5°	15.8	14.5	10.5	9.2	18.4
80°	6.6	5.3	1.3	7.9	7.9
82.5°	6.6	2.6	7.9	10.5	6.6
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)