

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: P247467

Luminaire Tested: **LD8B90D010 ER8B90950 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90950 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9692.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

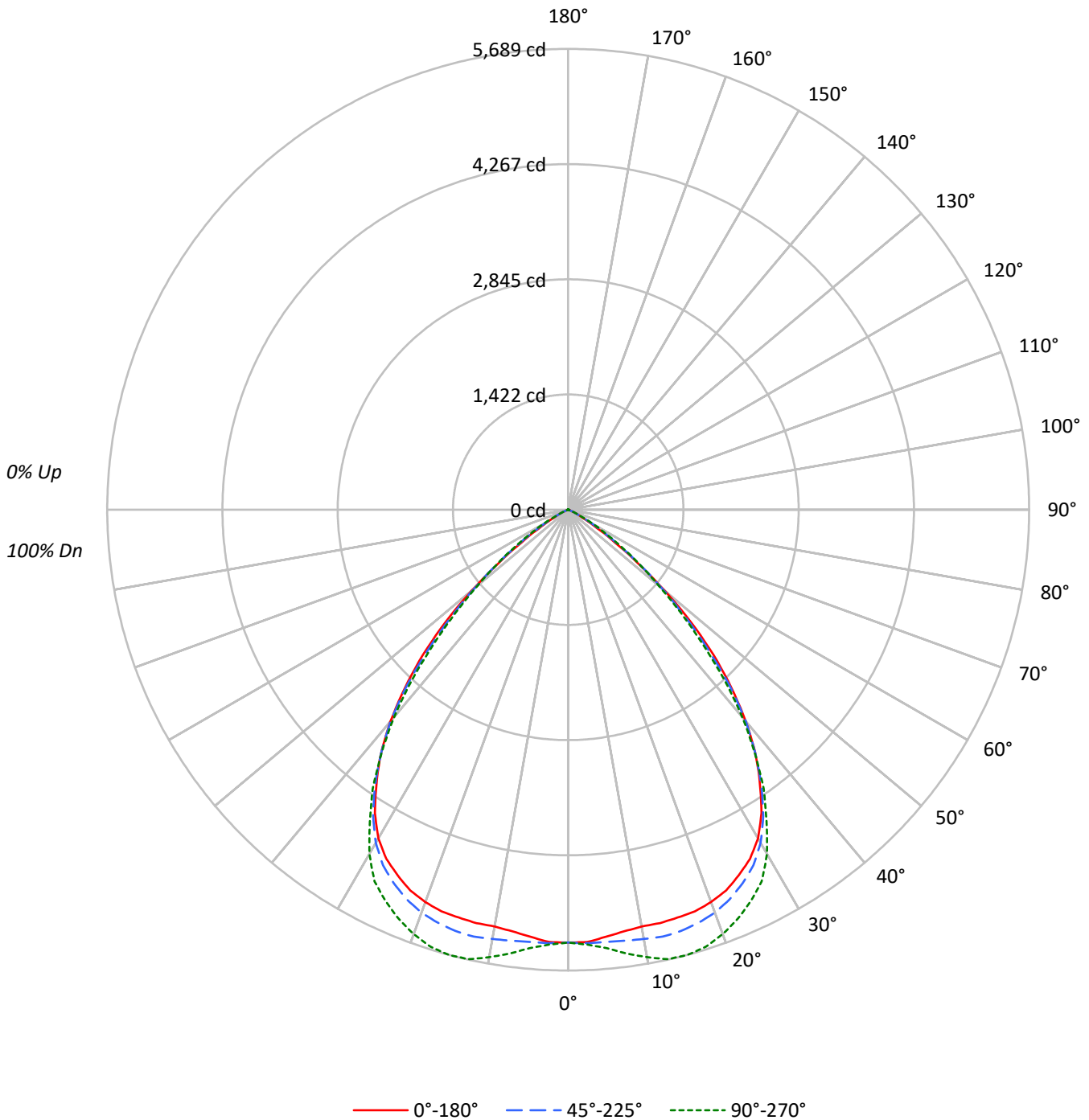
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	164777	164777	164777
5°	163862	165824	168137
10°	163577	168487	175642
15°	166443	171883	181629
20°	169147	173682	182952
25°	169443	173186	181386
30°	166857	169039	174662
35°	155294	156310	158264
40°	137254	137085	134621
45°	110558	106437	102316
50°	74238	72295	69853
55°	37692	40929	43439
60°	15437	18896	22036
65°	5757	6136	7202
70°	379	379	279
75°	739	1239	1608
80°	178	0	0
85°	743	0	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.1	5.3
10°-20°	1529.2	15.8
20°-30°	2353.2	24.3
30°-40°	2577.3	26.6
40°-50°	1874.0	19.3
50°-60°	720.9	7.4
60°-70°	112.9	1.2
70°-80°	8.1	0.1
80°-90°	3.3	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°	4395.5	45.4
0°-40°	6972.8	71.9
0°-60°	9567.7	98.7
0°-90°	9692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5344	5344	5344	5344	5344	
5°	5294	5321	5357	5408	5432	503
15°	5214	5254	5384	5584	5689	1475
25°	4980	5010	5090	5241	5331	2290
35°	4125	4125	4152	4178	4204	2562
45°	2535	2509	2441	2378	2346	1927
55°	701	720	761	786	808	685
65°	79	82	84	96	99	97
75°	6	14	10	14	14	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5343.6	5343.6	5343.6	5343.6	5343.6
2.5°	5342.5	5350.8	5356.0	5367.4	5372.6
5°	5293.7	5320.7	5357.1	5408.0	5431.8
7.5°	5251.1	5288.5	5366.4	5476.5	5525.3
10°	5224.1	5264.6	5380.9	5530.5	5609.4
12.5°	5227.2	5271.9	5397.6	5577.2	5683.2
15°	5213.7	5254.2	5384.1	5583.5	5689.4
17.5°	5198.2	5231.4	5346.7	5541.9	5656.2
20°	5154.5	5182.6	5292.7	5469.2	5575.2
22.5°	5089.1	5115.1	5206.5	5370.6	5468.2
25°	4980.1	5010.2	5090.1	5240.7	5331.1
27.5°	4858.5	4876.2	4949.9	5087.0	5173.2
30°	4686.1	4692.4	4747.4	4853.3	4905.3
32.5°	4440.0	4438.9	4480.5	4533.5	4553.2
35°	4125.3	4125.3	4152.3	4178.3	4204.2
37.5°	3798.1	3794.0	3797.1	3803.3	3781.5
40°	3409.7	3401.4	3405.5	3368.2	3344.3
42.5°	2983.9	2991.1	2949.6	2883.1	2858.2
45°	2535.2	2509.2	2440.7	2378.4	2346.2
47.5°	2058.5	2018.0	1952.6	1888.2	1883.0
50°	1547.5	1549.6	1507.0	1470.6	1456.1
52.5°	1073.9	1085.3	1107.1	1111.3	1116.5
55°	701.1	719.7	761.3	786.2	808.0
57.5°	428.9	463.2	498.5	545.3	549.4
60°	250.3	266.9	306.4	341.7	357.3
62.5°	141.2	156.8	165.1	185.9	191.1
65°	78.9	82.0	84.1	95.6	98.7
67.5°	47.8	49.9	51.9	50.9	53.0
70°	4.2	9.3	4.2	5.2	3.1
72.5°	17.7	11.4	12.5	9.3	6.2
75°	6.2	13.5	10.4	13.5	13.5
77.5°	4.2	3.1	5.2	6.2	5.2
80°	1.0	0.0	0.0	0.0	0.0
82.5°	9.3	8.3	5.2	8.3	3.1
85°	2.1	0.0	0.0	0.0	2.1
87.5°	6.2	3.1	3.1	7.3	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)