

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: P247559

Luminaire Tested: **LD8B90D010 ER8B90940 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247559  
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: LD8B90D010 ER8B90940 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8385.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

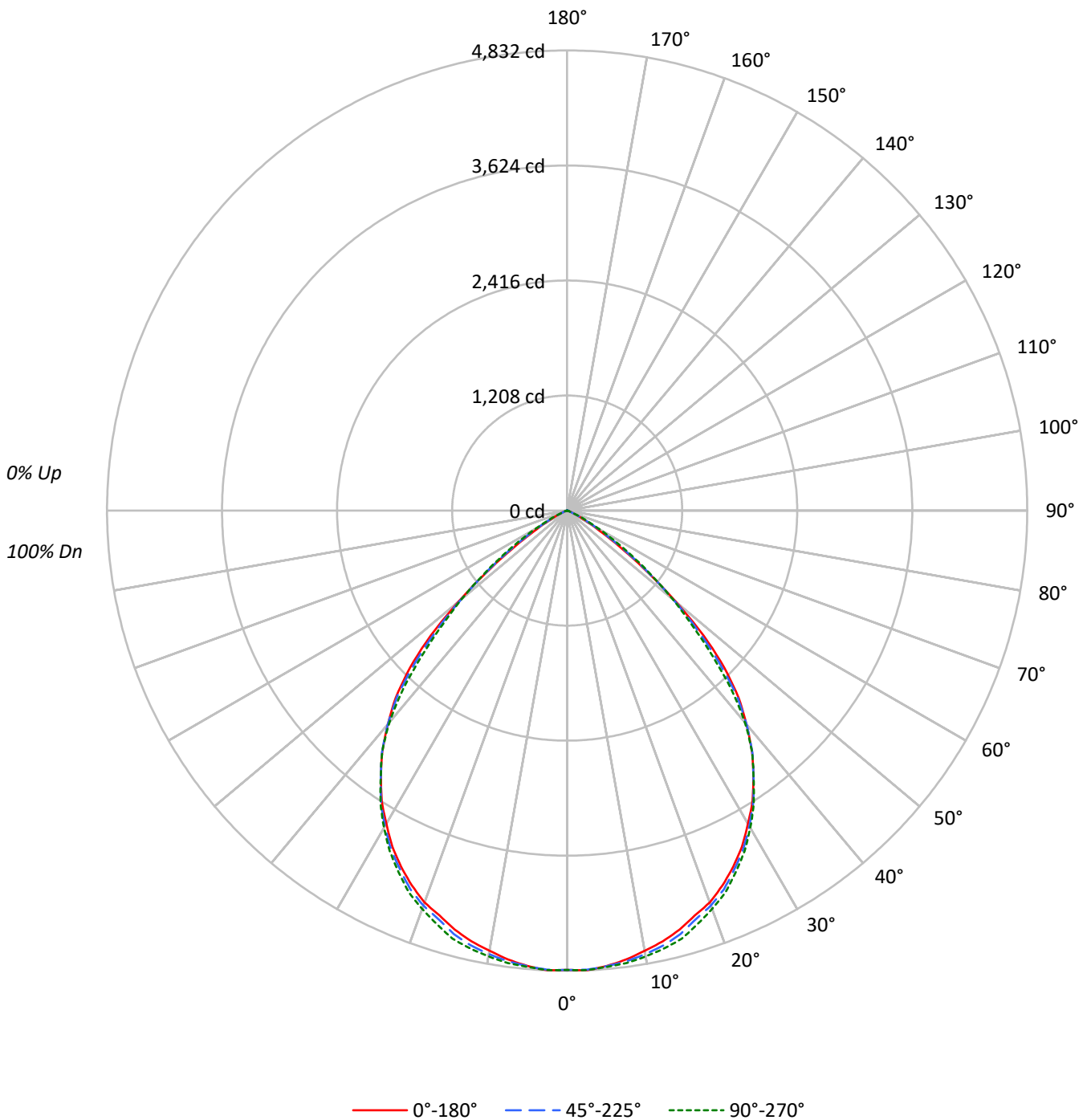
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	148745	148745	148745
5°	148567	148629	148849
10°	146957	148087	148842
15°	145440	146947	148549
20°	143675	144827	146077
25°	140363	141387	142547
30°	135213	136249	136961
35°	128295	128408	128446
40°	117884	118089	116877
45°	101984	98395	94021
50°	71523	70079	69162
55°	38837	42068	44821
60°	17139	20913	23701
65°	6589	8274	9879
70°	3345	2984	3886
75°	1072	2037	1787
80°	888	178	1065
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.3	5.4
10°-20°	1295.8	15.5
20°-30°	1911.0	22.8
30°-40°	2127.0	25.4
40°-50°	1711.8	20.4
50°-60°	727.9	8.7
60°-70°	136.5	1.6
70°-80°	16.6	0.2
80°-90°	2.1	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°	3663.1	43.7
0°-40°	5790.2	69.1
0°-60°	8229.9	98.2
0°-90°	8385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4824	4824	4824	4824	4824	
5°	4800	4801	4802	4810	4809	455
15°	4556	4581	4603	4638	4653	1284
25°	4125	4140	4156	4180	4190	1896
35°	3408	3409	3411	3412	3412	2122
45°	2339	2320	2256	2188	2156	1758
55°	722	738	782	814	834	688
65°	90	100	113	121	135	117
75°	9	11	17	16	15	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4823.7	4823.7	4823.7	4823.7	4823.7
2.5°	4831.7	4834.7	4824.7	4826.7	4829.7
5°	4799.6	4800.6	4801.6	4809.7	4808.7
7.5°	4754.5	4761.5	4773.5	4788.6	4792.6
10°	4693.3	4711.3	4729.4	4747.5	4753.5
12.5°	4633.1	4644.1	4676.2	4694.3	4709.3
15°	4555.8	4580.9	4603.0	4638.1	4653.2
17.5°	4457.5	4475.6	4496.6	4531.8	4552.8
20°	4378.3	4383.3	4413.4	4444.5	4451.5
22.5°	4260.9	4271.9	4303.0	4324.1	4342.1
25°	4125.4	4140.5	4155.5	4179.6	4189.6
27.5°	3977.0	3986.0	4007.1	4024.1	4033.1
30°	3797.4	3817.4	3826.5	3834.5	3846.5
32.5°	3622.8	3628.8	3636.8	3641.9	3647.9
35°	3408.1	3409.1	3411.1	3412.1	3412.1
37.5°	3188.4	3195.4	3193.4	3187.4	3190.4
40°	2928.5	2940.6	2933.6	2915.5	2903.5
42.5°	2666.7	2660.7	2636.6	2582.4	2557.3
45°	2338.6	2319.6	2256.3	2188.1	2156.0
47.5°	1945.3	1903.2	1850.0	1796.9	1775.8
50°	1490.9	1484.8	1460.8	1439.7	1441.7
52.5°	1068.5	1083.5	1088.5	1108.6	1118.6
55°	722.4	738.4	782.5	813.7	833.7
57.5°	439.4	470.5	517.7	568.9	594.9
60°	277.9	296.0	339.1	372.2	384.3
62.5°	173.6	174.6	195.6	221.7	232.8
65°	90.3	100.3	113.4	121.4	135.4
67.5°	56.2	56.2	55.2	67.2	75.2
70°	37.1	32.1	33.1	40.1	43.1
72.5°	13.0	22.1	20.1	20.1	14.0
75°	9.0	11.0	17.1	16.1	15.0
77.5°	12.0	11.0	8.0	7.0	14.0
80°	5.0	4.0	1.0	6.0	6.0
82.5°	5.0	2.0	6.0	8.0	5.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)