

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: P247635

Luminaire Tested: **LD8B90D010 ER8B90840 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90840 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8701.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

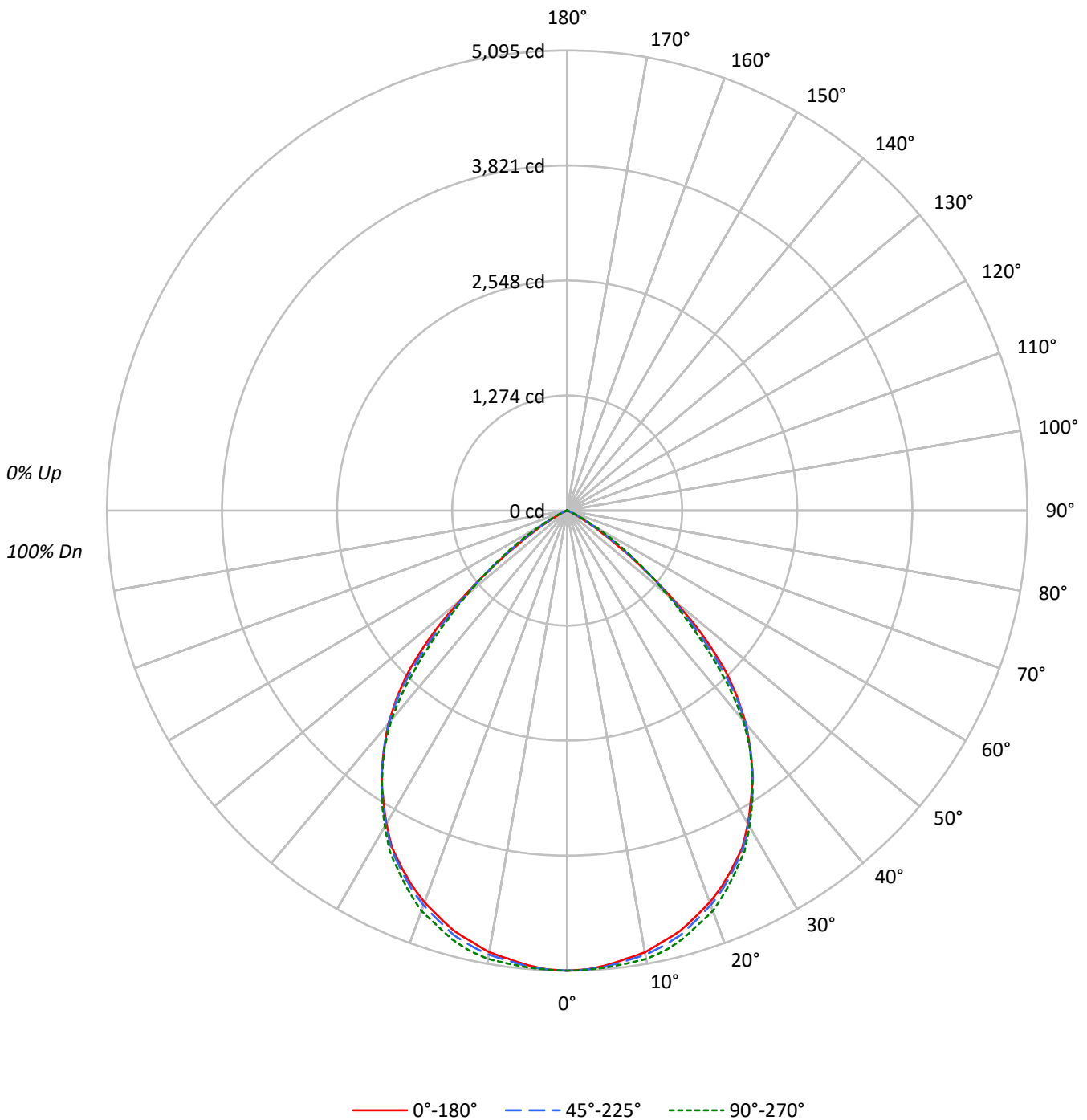
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	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°	157099	157099	157099
5°	156383	156798	157179
10°	155492	156335	157806
15°	153925	155247	156926
20°	151466	152565	154806
25°	147947	148743	150077
30°	142477	142833	143751
35°	134747	134958	134412
40°	123821	123684	121973
45°	106476	102133	97445
50°	74022	71393	69407
55°	38622	41988	44455
60°	15665	18496	21462
65°	4984	6122	6530
70°	703	406	198
75°	0	0	0
80°	1794	391	604
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.1	5.5
10°-20°	1369.1	15.7
20°-30°	2011.3	23.1
30°-40°	2226.8	25.6
40°-50°	1774.6	20.4
50°-60°	727.2	8.4
60°-70°	107.1	1.2
70°-80°	1.5	0.0
80°-90°	2.2	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°	3861.6	44.4
0°-40°	6088.4	70.0
0°-60°	8590.2	98.7
0°-90°	8701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5095	5095	5095	5095	5095	
5°	5052	5061	5066	5073	5078	479
15°	4822	4825	4863	4909	4916	1357
25°	4348	4344	4372	4398	4411	2000
35°	3580	3575	3585	3581	3571	2225
45°	2442	2419	2342	2255	2234	1832
55°	718	743	781	826	827	691
65°	68	72	84	92	90	90
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5094.6	5094.6	5094.6	5094.6	5094.6
2.5°	5085.6	5086.8	5086.8	5081.2	5087.9
5°	5052.1	5061.0	5065.5	5073.3	5077.8
7.5°	5005.1	5002.8	5026.3	5054.3	5057.7
10°	4965.9	4961.4	4992.8	5029.7	5039.8
12.5°	4888.7	4894.3	4934.6	4972.6	4992.8
15°	4821.6	4824.9	4863.0	4908.8	4915.6
17.5°	4717.5	4727.6	4753.3	4801.4	4810.4
20°	4615.7	4620.2	4649.2	4688.4	4717.5
22.5°	4491.5	4499.3	4521.7	4556.4	4570.9
25°	4348.3	4343.8	4371.7	4397.5	4410.9
27.5°	4202.8	4195.0	4216.2	4240.8	4253.1
30°	4001.4	3999.1	4011.4	4027.1	4037.2
32.5°	3789.9	3795.5	3807.8	3812.3	3815.6
35°	3579.5	3575.1	3585.1	3580.6	3570.6
37.5°	3330.0	3333.4	3333.4	3328.9	3324.4
40°	3076.0	3079.4	3072.6	3048.0	3030.1
42.5°	2778.4	2780.6	2745.9	2691.1	2654.2
45°	2441.6	2419.2	2342.0	2254.7	2234.5
47.5°	2017.5	1979.4	1898.9	1832.8	1809.3
50°	1543.0	1515.1	1488.2	1453.5	1446.8
52.5°	1082.0	1096.6	1106.6	1117.8	1114.5
55°	718.4	743.0	781.0	825.8	826.9
57.5°	431.9	459.9	508.0	557.2	580.7
60°	254.0	265.2	299.9	336.8	348.0
62.5°	137.6	141.0	156.7	193.6	188.0
65°	68.3	71.6	83.9	91.8	89.5
67.5°	33.6	36.9	39.2	50.4	41.4
70°	7.8	2.2	4.5	5.6	2.2
72.5°	0.0	0.0	2.2	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.0	0.0	0.0	4.5
80°	10.1	6.7	2.2	2.2	3.4
82.5°	3.4	1.1	3.4	1.1	0.0
85°	0.0	0.0	0.0	4.5	0.0
87.5°	5.6	1.1	1.1	3.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)