

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: P247099

Luminaire Tested: **LD8B90D010 ER8B90830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90830 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10183.0 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

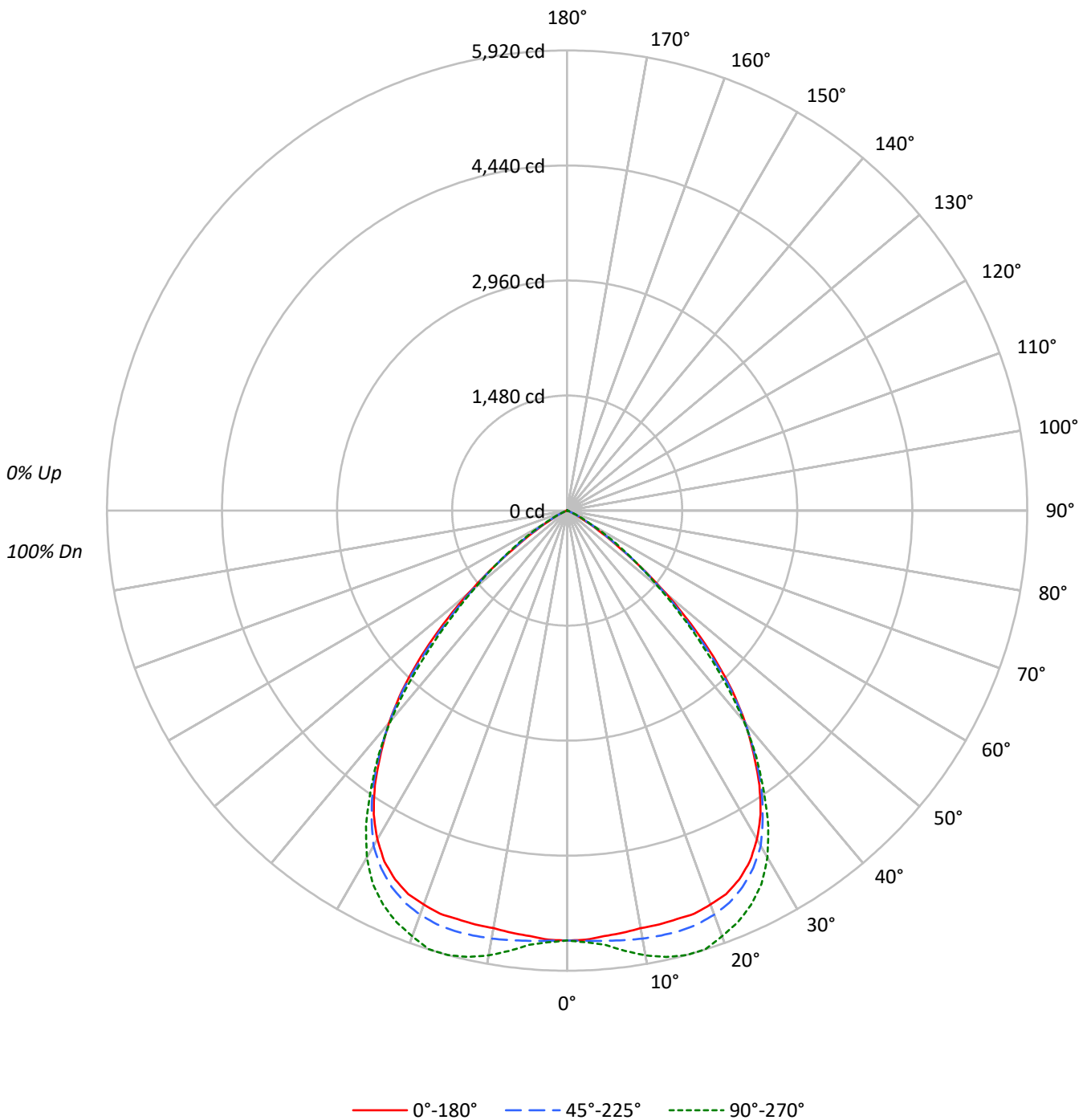
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247099

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P247099

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSOLI

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

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

	0°	45°	90°
0°	170565	170565	170565
5°	170111	171987	173597
10°	170788	175094	181945
15°	173747	178759	188994
20°	176963	181547	191215
25°	178137	181750	190447
30°	173928	177400	183414
35°	162352	164023	165981
40°	143570	143437	142350
45°	116096	112791	107832
50°	79755	76689	74195
55°	41052	43670	46756
60°	17102	20241	22708
65°	6640	7034	8296
70°	1758	1659	2245
75°	774	1418	1287
80°	1154	1350	0
85°	0	0	0



TEST NUMBER: P247099

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.2	5.2
10°-20°	1593.5	15.6
20°-30°	2465.8	24.2
30°-40°	2700.8	26.5
40°-50°	1975.9	19.4
50°-60°	775.3	7.6
60°-70°	125.5	1.2
70°-80°	11.6	0.1
80°-90°	2.3	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°	4591.6	45.1
0°-40°	7292.4	71.6
0°-60°	10043.6	98.6
0°-90°	10183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5531	5531	5531	5531	5531	
5°	5496	5509	5556	5596	5608	524
15°	5442	5478	5600	5808	5920	1541
25°	5236	5252	5342	5503	5597	2401
35°	4313	4320	4357	4398	4409	2671
45°	2662	2658	2586	2507	2473	2027
55°	764	780	812	842	870	751
65°	91	89	96	106	114	110
75°	6	10	12	9	11	11
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247099

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5531.3	5531.3	5531.3	5531.3	5531.3
2.5°	5525.9	5529.1	5540.0	5550.8	5557.3
5°	5495.6	5508.6	5556.2	5596.3	5608.2
7.5°	5477.1	5498.8	5573.5	5674.3	5713.3
10°	5454.4	5485.8	5591.9	5734.9	5810.7
12.5°	5455.5	5485.8	5598.4	5784.7	5882.2
15°	5442.5	5478.2	5599.5	5807.5	5920.1
17.5°	5439.2	5456.6	5580.0	5791.2	5915.8
20°	5392.7	5416.5	5532.4	5719.8	5827.0
22.5°	5341.8	5352.6	5458.7	5642.9	5733.8
25°	5235.6	5251.9	5341.8	5503.1	5597.4
27.5°	5089.4	5092.6	5183.6	5333.1	5415.4
30°	4884.7	4900.9	4982.2	5092.6	5151.1
32.5°	4631.3	4629.1	4682.2	4778.6	4816.5
35°	4312.8	4320.4	4357.2	4398.4	4409.2
37.5°	3939.2	3948.9	3973.8	3987.9	3997.7
40°	3566.6	3566.6	3563.3	3548.2	3536.3
42.5°	3142.0	3127.9	3111.7	3044.5	3015.3
45°	2662.2	2657.9	2586.4	2507.3	2472.7
47.5°	2157.5	2133.7	2058.9	1995.0	1981.0
50°	1662.5	1637.6	1598.6	1567.2	1546.6
52.5°	1184.9	1166.5	1182.7	1182.7	1180.6
55°	763.6	779.8	812.3	841.6	869.7
57.5°	484.1	505.8	555.6	593.5	603.3
60°	277.3	293.5	328.2	361.7	368.2
62.5°	174.4	175.5	198.2	217.7	229.6
65°	91.0	88.8	96.4	106.1	113.7
67.5°	37.9	37.9	45.5	44.4	56.3
70°	19.5	16.2	18.4	21.7	24.9
72.5°	14.1	10.8	15.2	19.5	8.7
75°	6.5	9.7	11.9	8.7	10.8
77.5°	8.7	8.7	6.5	10.8	2.2
80°	6.5	4.3	7.6	3.2	0.0
82.5°	1.1	2.2	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.2	5.4	4.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)