

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: P247435

Luminaire Tested: **LD8B90D010 ER8B90830 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247435  
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 ER8B90830 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10107.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

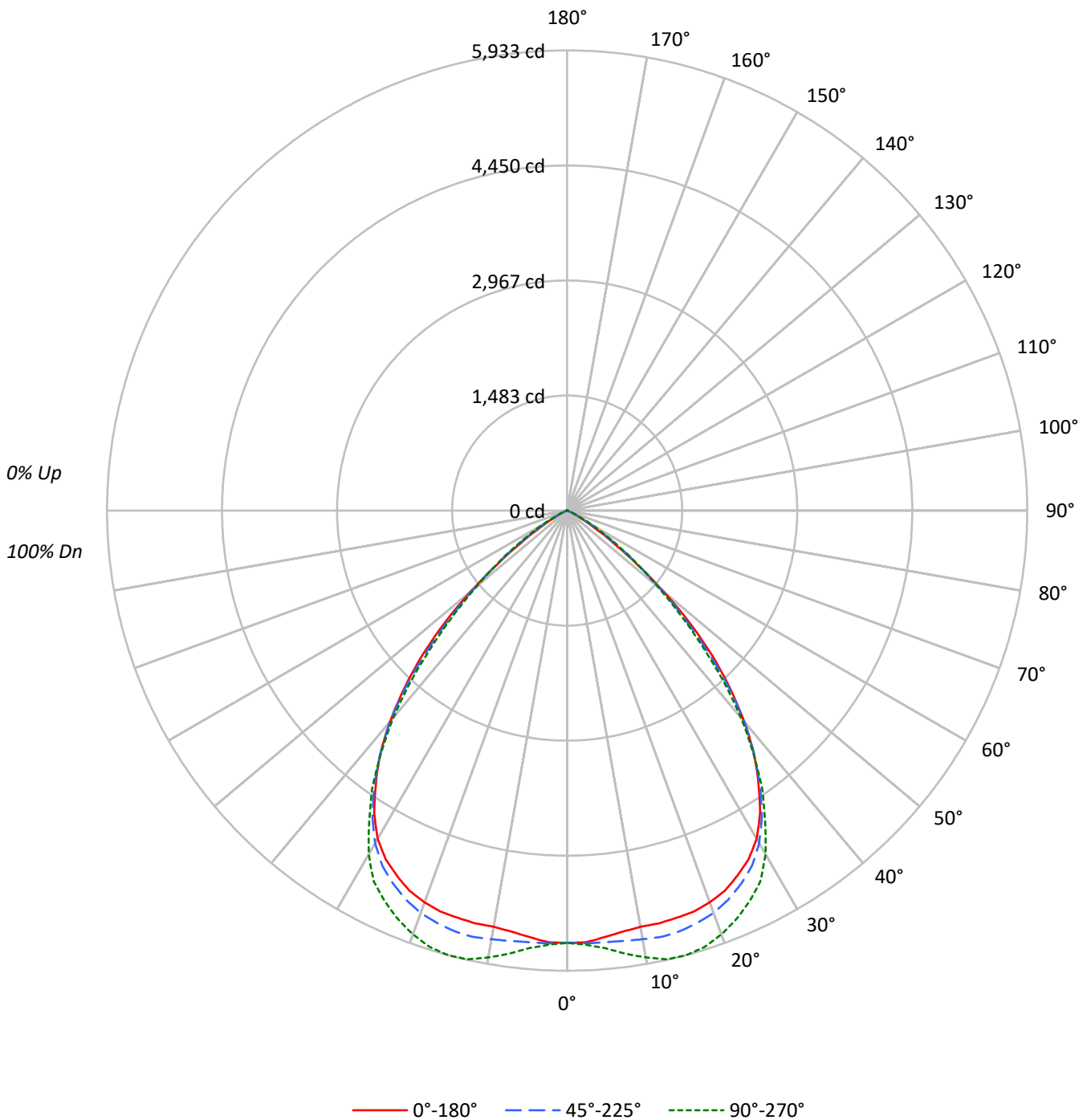
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	171832	171832	171832
5°	170879	172922	175336
10°	170582	175704	183163
15°	173571	179241	189406
20°	176389	181118	190785
25°	176697	180603	189154
30°	174003	176278	182139
35°	161942	163003	165040
40°	143131	142958	140386
45°	115294	110994	106694
50°	77418	75389	72847
55°	39305	42681	45299
60°	16097	19704	22979
65°	6005	6399	7508
70°	388	388	289
75°	774	1287	1680
80°	195	0	0
85°	778	0	778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.1	5.3
10°-20°	1594.7	15.8
20°-30°	2453.9	24.3
30°-40°	2687.7	26.6
40°-50°	1954.2	19.3
50°-60°	751.8	7.4
60°-70°	117.7	1.2
70°-80°	8.4	0.1
80°-90°	3.4	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°	4583.7	45.4
0°-40°	7271.4	71.9
0°-60°	9977.4	98.7
0°-90°	10107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5572	5572	5572	5572	5572	
5°	5520	5548	5586	5640	5664	525
15°	5437	5479	5615	5823	5933	1538
25°	5193	5225	5308	5465	5559	2389
35°	4302	4302	4330	4357	4384	2671
45°	2644	2617	2545	2480	2447	2010
55°	731	751	794	820	843	714
65°	82	86	88	100	103	101
75°	6	14	11	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°	5572.4	5572.4	5572.4	5572.4	5572.4
2.5°	5571.3	5579.9	5585.4	5597.3	5602.7
5°	5520.4	5548.5	5586.4	5639.5	5664.4
7.5°	5476.0	5515.0	5596.2	5711.0	5761.9
10°	5447.8	5490.1	5611.4	5767.3	5849.6
12.5°	5451.1	5497.6	5628.7	5816.1	5926.5
15°	5437.0	5479.2	5614.6	5822.6	5933.0
17.5°	5420.7	5455.4	5575.6	5779.2	5898.4
20°	5375.2	5404.5	5519.3	5703.4	5813.9
22.5°	5307.0	5334.1	5429.4	5600.5	5702.3
25°	5193.3	5224.7	5308.1	5465.1	5559.4
27.5°	5066.6	5085.0	5161.9	5304.8	5394.7
30°	4886.8	4893.3	4950.7	5061.2	5115.3
32.5°	4630.1	4629.0	4672.3	4727.6	4748.2
35°	4301.9	4301.9	4330.1	4357.2	4384.2
37.5°	3960.8	3956.4	3959.7	3966.2	3943.4
40°	3555.7	3547.0	3551.4	3512.4	3487.5
42.5°	3111.6	3119.2	3075.9	3006.6	2980.6
45°	2643.8	2616.7	2545.2	2480.2	2446.6
47.5°	2146.6	2104.4	2036.2	1969.0	1963.6
50°	1613.8	1615.9	1571.5	1533.6	1518.5
52.5°	1119.9	1131.8	1154.5	1158.9	1164.3
55°	731.1	750.6	793.9	819.9	842.6
57.5°	447.3	483.0	519.9	568.6	572.9
60°	261.0	278.3	319.5	356.3	372.6
62.5°	147.3	163.5	172.2	193.9	199.3
65°	82.3	85.6	87.7	99.6	102.9
67.5°	49.8	52.0	54.2	53.1	55.2
70°	4.3	9.7	4.3	5.4	3.2
72.5°	18.4	11.9	13.0	9.7	6.5
75°	6.5	14.1	10.8	14.1	14.1
77.5°	4.3	3.2	5.4	6.5	5.4
80°	1.1	0.0	0.0	0.0	0.0
82.5°	9.7	8.7	5.4	8.7	3.2
85°	2.2	0.0	0.0	0.0	2.2
87.5°	6.5	3.2	3.2	7.6	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)