

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: P247675

Luminaire Tested: **LD8B90D010 ER8B90830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90830 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9375.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

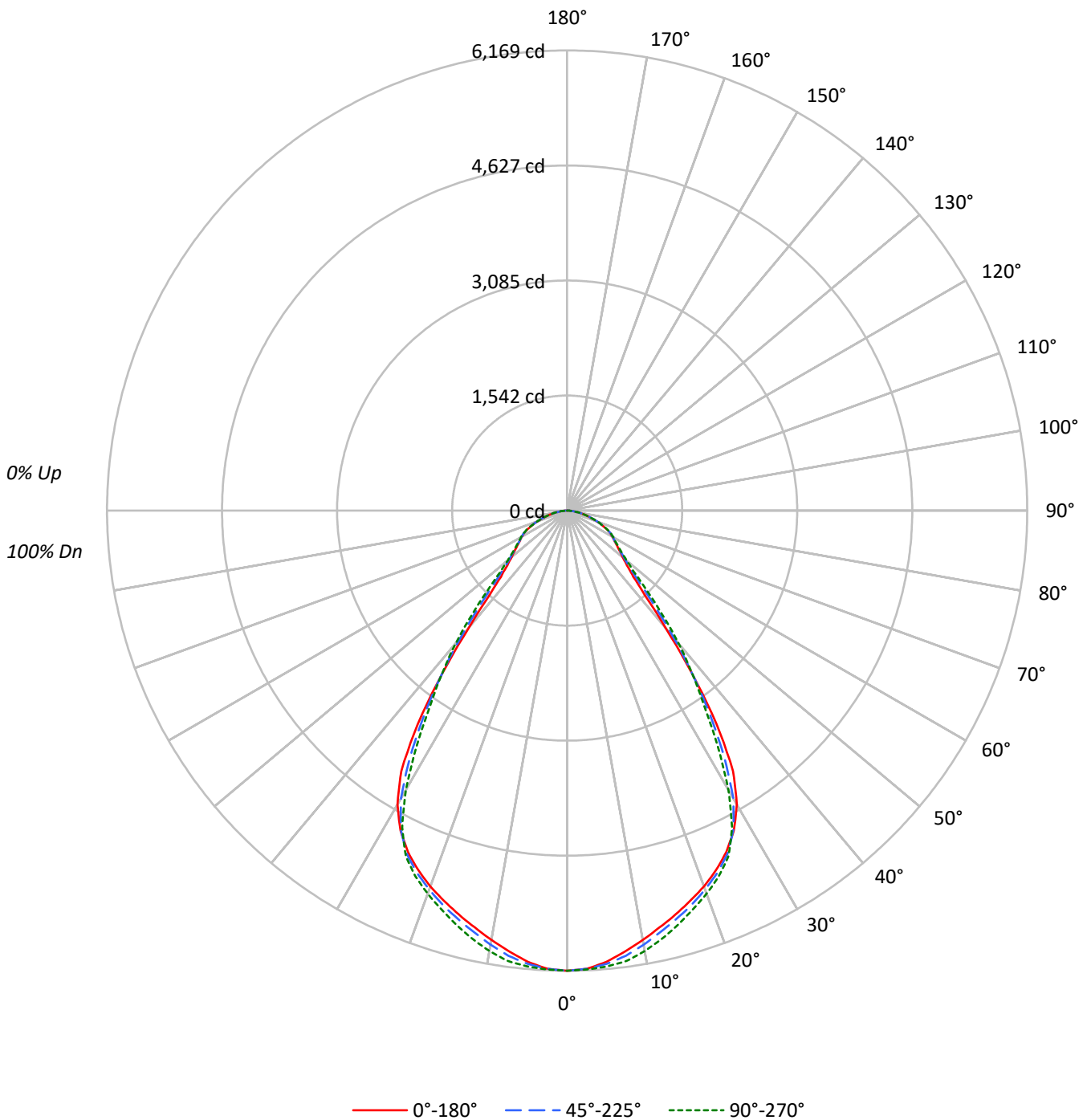
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	57
6	79	67	60	55	77	67	60	54	65	59	54		63	58	54		62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

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

	0°	45°	90°
0°	190242	190242	190242
5°	187916	188823	189894
10°	183003	185038	187750
15°	179008	180907	183503
20°	175936	177429	179385
25°	171805	172873	174016
30°	161978	158507	153839
35°	131491	125581	120770
40°	82227	89247	93566
45°	54791	59941	65039
50°	46711	48117	49777
55°	43670	44256	44896
60°	43288	43553	43954
65°	42203	42677	42991
70°	38282	38570	38868
75°	33419	33813	33944
80°	28466	28466	29230
85°	22997	22997	22997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.5	6.1
10°-20°	1599.5	17.1
20°-30°	2312.3	24.7
30°-40°	2069.4	22.1
40°-50°	1119.9	11.9
50°-60°	746.4	8.0
60°-70°	571.6	6.1
70°-80°	302.9	3.2
80°-90°	76.6	0.8
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°	4488.2	47.9
0°-40°	6557.6	69.9
0°-60°	8423.8	89.9
0°-90°	9375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6169	6169	6169	6169	6169	
5°	6071	6074	6100	6124	6135	572
15°	5607	5618	5667	5722	5748	1582
25°	5050	5061	5081	5105	5114	2310
35°	3493	3457	3336	3240	3208	2114
45°	1256	1293	1374	1460	1491	1034
55°	812	816	823	832	835	735
65°	578	580	585	589	589	567
75°	280	280	284	285	285	301
85°	65	65	65	66	65	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6169.4	6169.4	6169.4	6169.4	6169.4
2.5°	6148.8	6146.7	6147.7	6154.2	6157.5
5°	6070.8	6074.1	6100.1	6123.9	6134.7
7.5°	5961.5	5975.5	6019.9	6066.5	6090.3
10°	5844.5	5858.6	5909.5	5975.5	5996.1
12.5°	5724.2	5741.6	5787.1	5854.2	5879.1
15°	5607.3	5618.1	5666.8	5722.1	5748.1
17.5°	5487.0	5497.9	5542.3	5585.6	5606.2
20°	5361.4	5373.3	5406.9	5443.7	5466.5
22.5°	5217.4	5229.3	5257.4	5289.9	5310.5
25°	5049.5	5061.4	5080.9	5104.7	5114.5
27.5°	4837.2	4844.8	4826.3	4806.9	4789.5
30°	4549.1	4525.2	4451.6	4357.4	4320.5
32.5°	4139.7	4062.8	3920.9	3806.1	3763.8
35°	3493.0	3457.3	3336.0	3239.6	3208.2
37.5°	2739.2	2763.0	2754.4	2747.9	2754.4
40°	2042.7	2098.0	2217.1	2298.4	2324.4
42.5°	1546.7	1599.8	1734.1	1846.7	1885.7
45°	1256.4	1293.2	1374.5	1460.0	1491.4
47.5°	1084.2	1104.8	1145.9	1191.4	1206.6
50°	973.7	982.4	1003.0	1029.0	1037.6
52.5°	886.0	890.3	902.2	916.3	918.5
55°	812.3	815.6	823.2	831.8	835.1
57.5°	750.6	753.8	756.0	761.4	763.6
60°	701.9	701.9	706.2	710.5	712.7
62.5°	648.8	648.8	653.1	657.4	657.4
65°	578.4	580.5	584.9	589.2	589.2
67.5°	501.5	502.6	505.8	510.1	509.1
70°	424.6	424.6	427.8	430.0	431.1
72.5°	350.9	349.8	355.3	356.3	353.1
75°	280.5	280.5	283.8	284.9	284.9
77.5°	218.8	217.7	217.7	218.8	219.9
80°	160.3	161.4	160.3	162.5	164.6
82.5°	111.6	110.5	110.5	110.5	109.4
85°	65.0	65.0	65.0	66.1	65.0
87.5°	26.0	26.0	24.9	24.9	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)