

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: P247557

Luminaire Tested: **LD8B120D010 ER8B120935 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247557  
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: LD8B120D010 ER8B120935 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10500.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

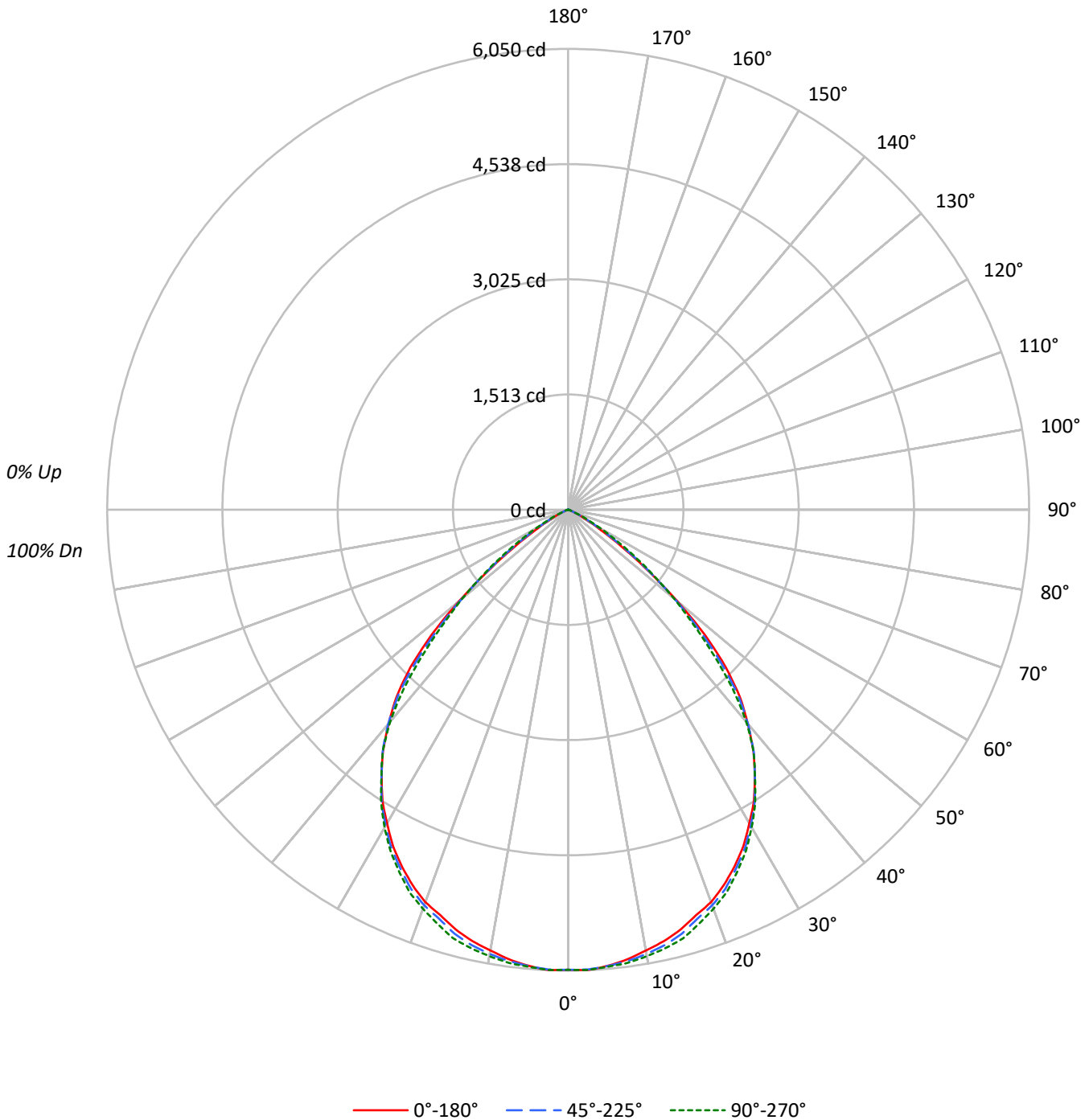
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	186264	186264	186264
5°	186043	186121	186393
10°	184024	185439	186385
15°	182127	184011	186015
20°	179913	181357	182922
25°	175769	177051	178504
30°	169317	170613	171510
35°	160654	160797	160846
40°	147619	147873	146355
45°	127709	123218	117736
50°	89560	87752	86605
55°	48633	52681	56127
60°	21462	26186	29677
65°	8252	10361	12375
70°	4192	3742	4869
75°	1346	2550	2240
80°	1119	231	1332
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.4	5.4
10°-20°	1622.7	15.5
20°-30°	2393.0	22.8
30°-40°	2663.6	25.4
40°-50°	2143.6	20.4
50°-60°	911.5	8.7
60°-70°	170.9	1.6
70°-80°	20.7	0.2
80°-90°	2.6	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°	4587.1	43.7
0°-40°	7250.7	69.1
0°-60°	10305.8	98.2
0°-90°	10500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6040	6040	6040	6040	6040	
5°	6010	6012	6013	6023	6022	569
15°	5705	5736	5764	5808	5827	1608
25°	5166	5185	5204	5234	5246	2374
35°	4268	4269	4272	4273	4273	2658
45°	2928	2905	2826	2740	2700	2202
55°	905	925	980	1019	1044	862
65°	113	126	142	152	170	147
75°	11	14	21	20	19	18
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6040.4	6040.4	6040.4	6040.4	6040.4
2.5°	6050.5	6054.2	6041.7	6044.2	6048.0
5°	6010.3	6011.5	6012.8	6022.8	6021.6
7.5°	5953.7	5962.5	5977.6	5996.5	6001.5
10°	5877.1	5899.7	5922.3	5944.9	5952.5
12.5°	5801.7	5815.5	5855.7	5878.4	5897.2
15°	5705.0	5736.4	5764.0	5808.0	5826.8
17.5°	5581.9	5604.5	5630.9	5674.8	5701.2
20°	5482.6	5488.9	5526.6	5565.5	5574.3
22.5°	5335.6	5349.4	5388.4	5414.8	5437.4
25°	5166.0	5184.9	5203.7	5233.9	5246.4
27.5°	4980.1	4991.4	5017.8	5039.1	5050.4
30°	4755.2	4780.3	4791.6	4801.7	4816.8
32.5°	4536.6	4544.1	4554.2	4560.5	4568.0
35°	4267.7	4269.0	4271.5	4272.8	4272.8
37.5°	3992.6	4001.4	3998.9	3991.4	3995.1
40°	3667.2	3682.3	3673.5	3650.9	3635.8
42.5°	3339.3	3331.8	3301.6	3233.8	3202.4
45°	2928.5	2904.6	2825.5	2740.1	2699.8
47.5°	2436.0	2383.3	2316.7	2250.1	2223.7
50°	1866.9	1859.4	1829.2	1802.8	1805.3
52.5°	1338.0	1356.8	1363.1	1388.2	1400.8
55°	904.6	924.7	979.9	1018.9	1044.0
57.5°	550.3	589.2	648.3	712.3	745.0
60°	348.0	370.6	424.6	466.1	481.2
62.5°	217.3	218.6	245.0	277.6	291.5
65°	113.1	125.6	142.0	152.0	169.6
67.5°	70.4	70.4	69.1	84.2	94.2
70°	46.5	40.2	41.5	50.3	54.0
72.5°	16.3	27.6	25.1	25.1	17.6
75°	11.3	13.8	21.4	20.1	18.8
77.5°	15.1	13.8	10.1	8.8	17.6
80°	6.3	5.0	1.3	7.5	7.5
82.5°	6.3	2.5	7.5	10.1	6.3
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)