

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: P247536

Luminaire Tested: **LD8B100D010 ER8B100835 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247536  
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: LD8B100D010 ER8B100835 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10861.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

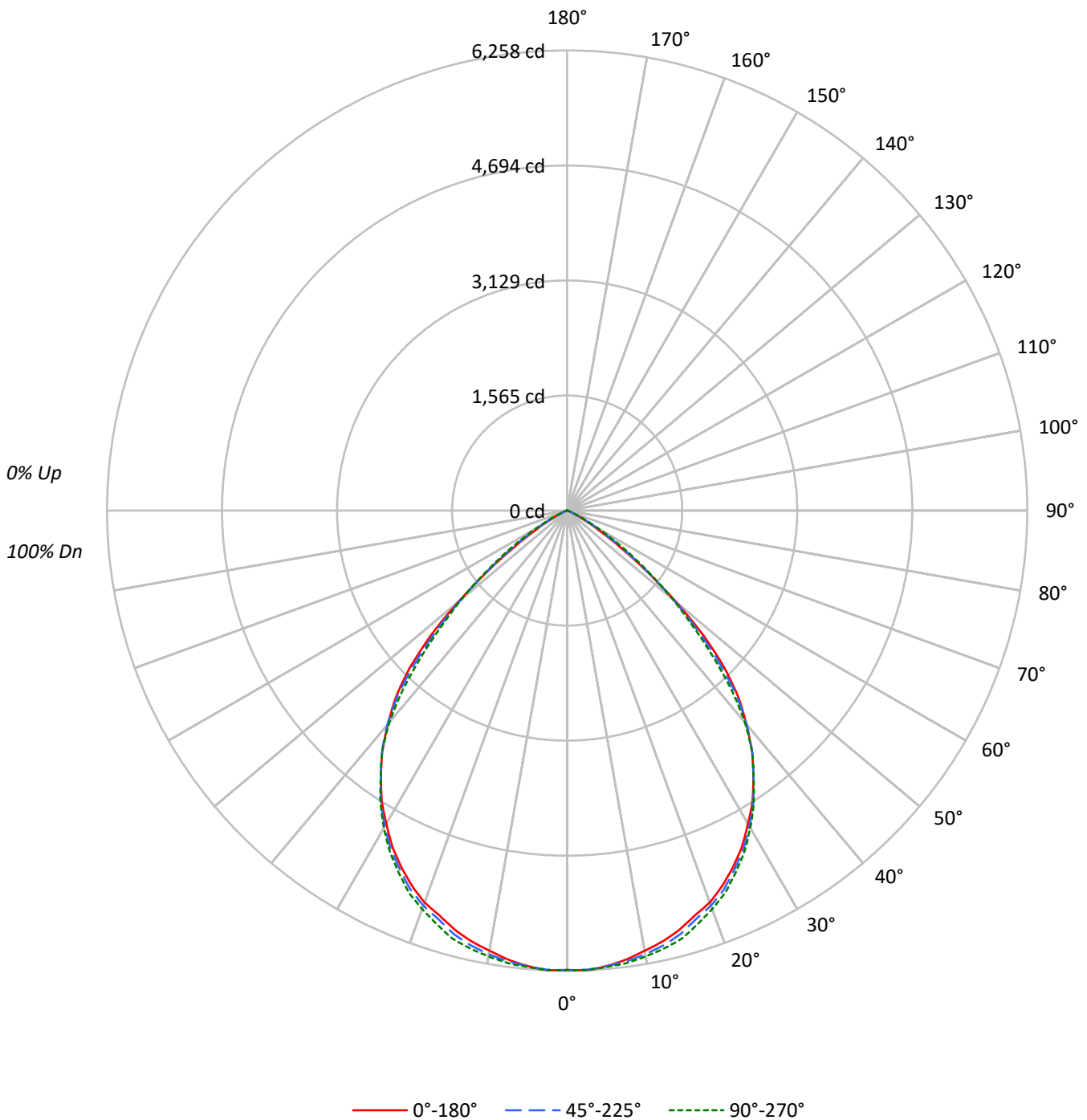
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	192668	192668	192668
5°	192439	192519	192801
10°	190352	191814	192791
15°	188387	190338	192413
20°	186099	187592	189213
25°	181811	183138	184642
30°	175139	176481	177407
35°	166180	166327	166376
40°	152695	152957	151387
45°	132101	127452	121787
50°	92640	90769	89584
55°	50305	54493	58057
60°	22202	27087	30694
65°	8537	10711	12798
70°	4337	3868	5040
75°	1394	2633	2323
80°	1154	231	1385
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.0	5.4
10°-20°	1678.5	15.5
20°-30°	2475.3	22.8
30°-40°	2755.2	25.4
40°-50°	2217.3	20.4
50°-60°	942.9	8.7
60°-70°	176.8	1.6
70°-80°	21.5	0.2
80°-90°	2.7	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
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0°-30°	4744.8	43.7
0°-40°	7500.0	69.1
0°-60°	10660.1	98.2
0°-90°	10861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6248	6248	6248	6248	6248	
5°	6217	6218	6220	6230	6229	589
15°	5901	5934	5962	6008	6027	1663
25°	5344	5363	5383	5414	5427	2456
35°	4414	4416	4418	4420	4420	2749
45°	3029	3004	2923	2834	2793	2278
55°	936	956	1014	1054	1080	891
65°	117	130	147	157	175	152
75°	12	14	22	21	20	19
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°	6248.1	6248.1	6248.1	6248.1	6248.1
2.5°	6258.5	6262.4	6249.4	6252.0	6255.9
5°	6216.9	6218.2	6219.5	6229.9	6228.6
7.5°	6158.4	6167.5	6183.1	6202.6	6207.8
10°	6079.2	6102.6	6125.9	6149.3	6157.1
12.5°	6001.2	6015.5	6057.1	6080.5	6100.0
15°	5901.1	5933.6	5962.2	6007.7	6027.2
17.5°	5773.8	5797.2	5824.5	5869.9	5897.2
20°	5671.1	5677.6	5716.6	5756.9	5766.0
22.5°	5519.1	5533.4	5573.6	5600.9	5624.3
25°	5343.6	5363.1	5382.6	5413.8	5426.8
27.5°	5151.3	5163.0	5190.3	5212.4	5224.1
30°	4918.7	4944.7	4956.4	4966.8	4982.4
32.5°	4692.6	4700.4	4710.8	4717.3	4725.1
35°	4414.5	4415.8	4418.4	4419.7	4419.7
37.5°	4129.9	4139.0	4136.4	4128.6	4132.5
40°	3793.3	3808.9	3799.8	3776.4	3760.8
42.5°	3454.1	3446.3	3415.1	3345.0	3312.5
45°	3029.2	3004.5	2922.6	2834.3	2792.7
47.5°	2519.8	2465.2	2396.3	2327.4	2300.2
50°	1931.1	1923.3	1892.1	1864.8	1867.4
52.5°	1384.0	1403.5	1410.0	1436.0	1449.0
55°	935.7	956.4	1013.6	1053.9	1079.9
57.5°	569.2	609.5	670.6	736.8	770.6
60°	360.0	383.4	439.2	482.1	497.7
62.5°	224.8	226.1	253.4	287.2	301.5
65°	117.0	130.0	146.8	157.2	175.4
67.5°	72.8	72.8	71.5	87.1	97.5
70°	48.1	41.6	42.9	52.0	55.9
72.5°	16.9	28.6	26.0	26.0	18.2
75°	11.7	14.3	22.1	20.8	19.5
77.5°	15.6	14.3	10.4	9.1	18.2
80°	6.5	5.2	1.3	7.8	7.8
82.5°	6.5	2.6	7.8	10.4	6.5
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)