

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: P247660

Luminaire Tested: **LD8B100D010 ER8B100950 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100950 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9318.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

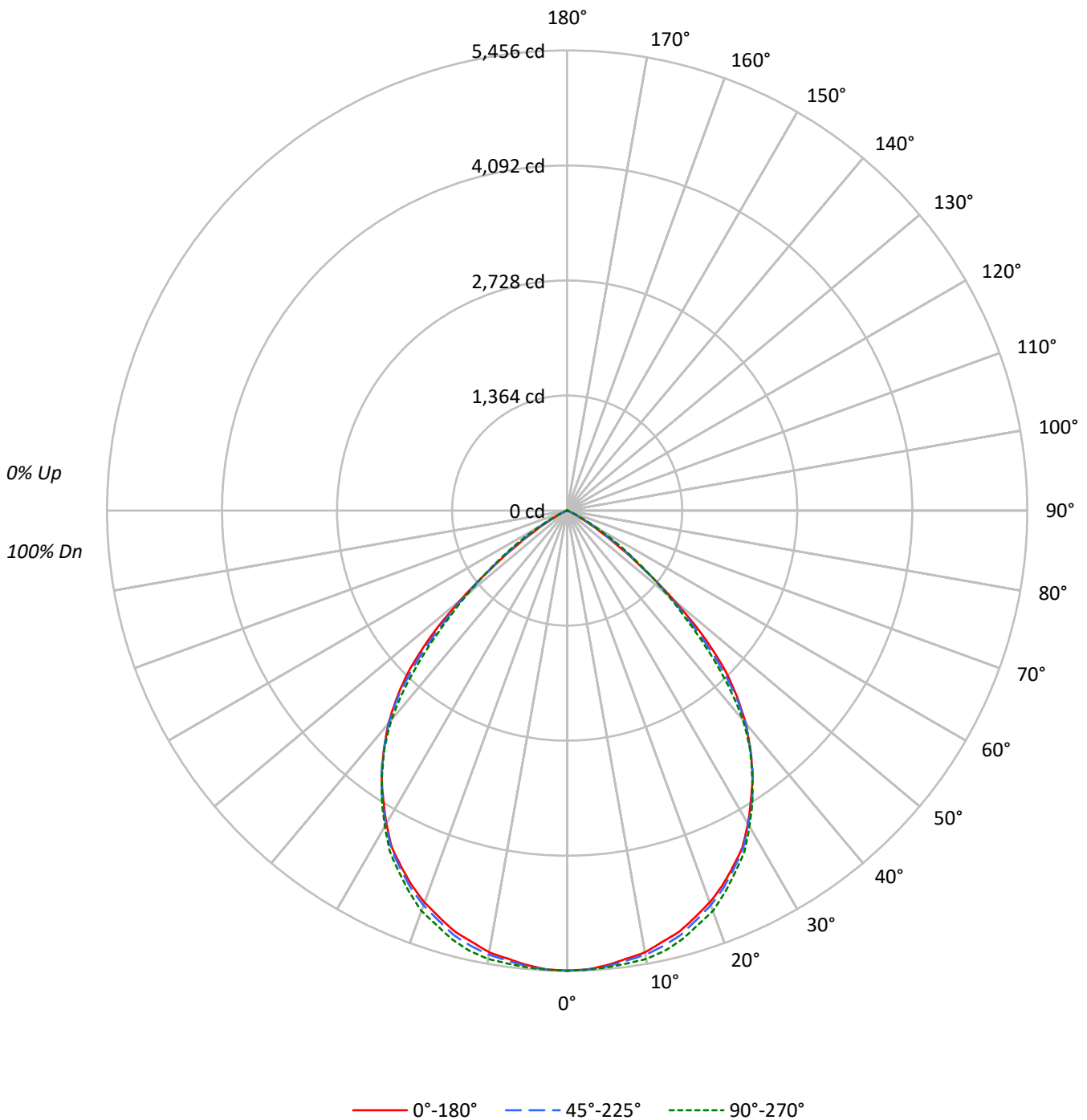
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	168240	168240	168240
5°	167471	167917	168325
10°	166520	167419	168994
15°	164840	166254	168052
20°	162206	163384	165783
25°	158437	159294	160720
30°	152578	152963	153946
35°	144305	144531	143944
40°	132601	132456	130624
45°	114025	109372	104357
50°	79275	76454	74329
55°	41359	44966	47606
60°	16775	19803	22985
65°	5334	6560	6997
70°	757	433	216
75°	0	0	0
80°	1918	426	639
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	5.5
10°-20°	1466.2	15.7
20°-30°	2154.0	23.1
30°-40°	2384.7	25.6
40°-50°	1900.5	20.4
50°-60°	778.7	8.4
60°-70°	114.7	1.2
70°-80°	1.6	0.0
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°	4135.4	44.4
0°-40°	6520.2	70.0
0°-60°	9199.4	98.7
0°-90°	9318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5456	5456	5456	5456	5456	
5°	5410	5420	5425	5433	5438	513
15°	5164	5167	5208	5257	5264	1453
25°	4657	4652	4682	4709	4724	2141
35°	3833	3829	3839	3835	3824	2383
45°	2615	2591	2508	2415	2393	1962
55°	769	796	836	884	886	740
65°	73	77	90	98	96	97
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5455.9	5455.9	5455.9	5455.9	5455.9
2.5°	5446.3	5447.5	5447.5	5441.5	5448.7
5°	5410.3	5419.9	5424.7	5433.1	5437.9
7.5°	5360.0	5357.6	5382.8	5412.7	5416.3
10°	5318.1	5313.3	5346.8	5386.4	5397.1
12.5°	5235.4	5241.4	5284.5	5325.2	5346.8
15°	5163.5	5167.1	5207.8	5256.9	5264.1
17.5°	5052.0	5062.8	5090.4	5141.9	5151.5
20°	4943.0	4947.8	4978.9	5020.9	5052.0
22.5°	4810.0	4818.4	4842.3	4879.5	4895.1
25°	4656.6	4651.8	4681.8	4709.3	4723.7
27.5°	4500.8	4492.4	4515.2	4541.6	4554.7
30°	4285.1	4282.7	4295.9	4312.7	4323.5
32.5°	4058.6	4064.6	4077.8	4082.6	4086.2
35°	3833.4	3828.6	3839.4	3834.6	3823.8
37.5°	3566.1	3569.7	3569.7	3564.9	3560.1
40°	3294.1	3297.7	3290.5	3264.2	3245.0
42.5°	2975.4	2977.8	2940.6	2881.9	2842.4
45°	2614.7	2590.7	2508.0	2414.6	2393.0
47.5°	2160.5	2119.8	2033.5	1962.8	1937.7
50°	1652.5	1622.5	1593.7	1556.6	1549.4
52.5°	1158.8	1174.3	1185.1	1197.1	1193.5
55°	769.3	795.7	836.4	884.3	885.5
57.5°	462.5	492.5	544.0	596.8	621.9
60°	272.0	284.0	321.1	360.7	372.7
62.5°	147.4	151.0	167.8	207.3	201.3
65°	73.1	76.7	89.9	98.3	95.9
67.5°	35.9	39.5	41.9	53.9	44.3
70°	8.4	2.4	4.8	6.0	2.4
72.5°	0.0	0.0	2.4	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.0	0.0	0.0	4.8
80°	10.8	7.2	2.4	2.4	3.6
82.5°	3.6	1.2	3.6	1.2	0.0
85°	0.0	0.0	0.0	4.8	0.0
87.5°	6.0	1.2	1.2	3.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)