

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: P247708

Luminaire Tested: **LD8B100D010 ER8B100950 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247708
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: LD8B100D010 ER8B100950 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10373.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

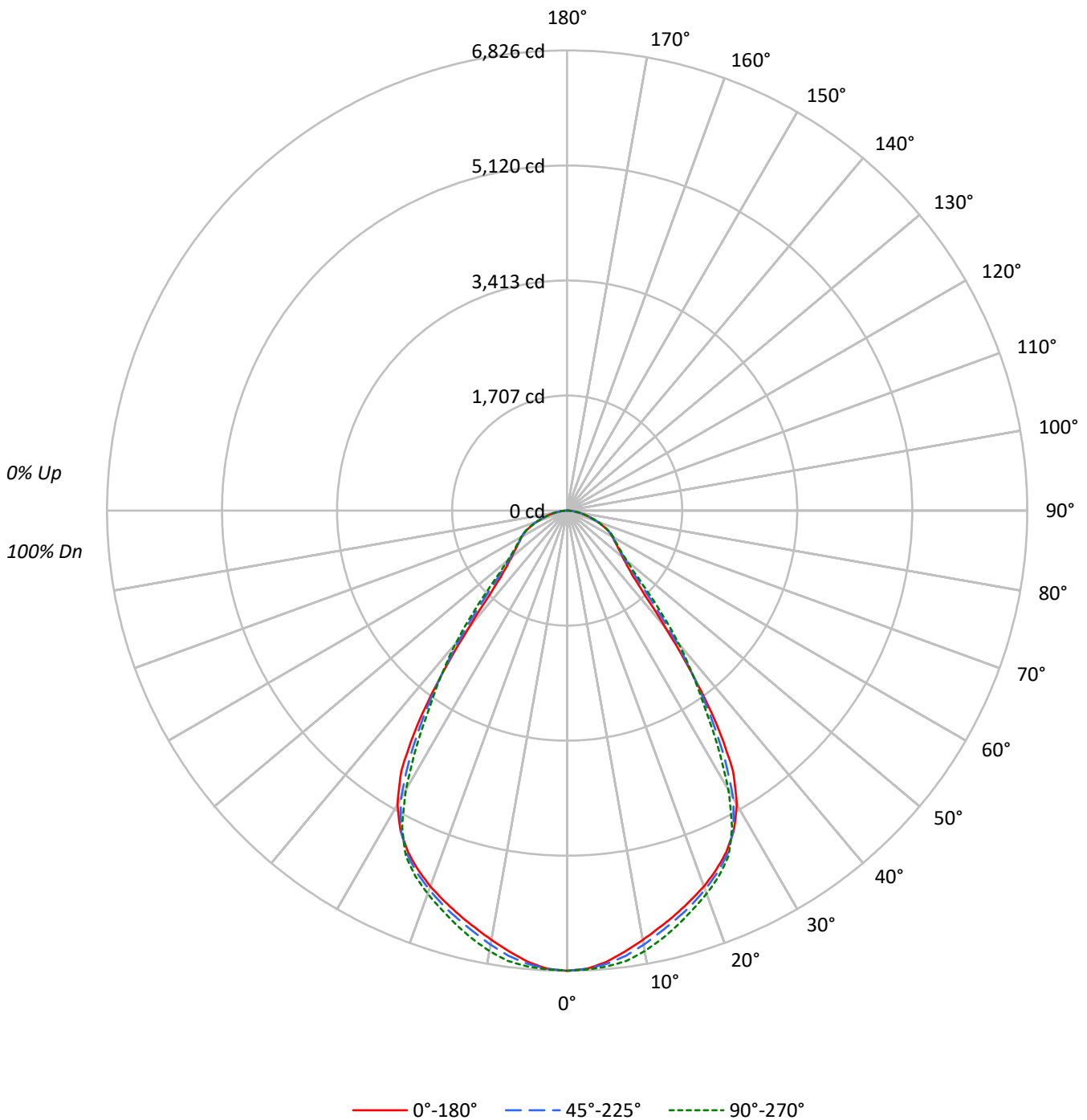
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247708

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P247708

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBW0MW

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	210495	210495	210495
5°	207922	208925	210110
10°	202482	204734	207736
15°	198064	200167	203037
20°	194664	196318	198480
25°	190093	191277	192539
30°	179219	175381	170218
35°	145491	138948	133626
40°	90982	98751	103525
45°	60625	66321	71964
50°	51686	53235	55078
55°	48321	48966	49676
60°	47895	48191	48635
65°	46698	47216	47566
70°	42357	42681	43006
75°	36982	37411	37554
80°	31503	31503	32355
85°	25439	25439	25439



TEST NUMBER: P247708

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.8	6.1
10°-20°	1769.7	17.1
20°-30°	2558.4	24.7
30°-40°	2289.6	22.1
40°-50°	1239.1	11.9
50°-60°	825.9	8.0
60°-70°	632.5	6.1
70°-80°	335.2	3.2
80°-90°	84.8	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°	4966.0	47.9
0°-40°	7255.6	69.9
0°-60°	9320.6	89.9
0°-90°	10373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6826	6826	6826	6826	6826	
5°	6717	6721	6750	6776	6788	633
15°	6204	6216	6270	6331	6360	1750
25°	5587	5600	5622	5648	5659	2556
35°	3865	3825	3691	3584	3550	2340
45°	1390	1431	1521	1616	1650	1144
55°	899	902	911	920	924	813
65°	640	642	647	652	652	627
75°	310	310	314	315	315	333
85°	72	72	72	73	72	85
90°	0	0	0	0	0	



TEST NUMBER: P247708

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBW0MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6826.2	6826.2	6826.2	6826.2	6826.2
2.5°	6803.4	6801.0	6802.2	6809.4	6813.0
5°	6717.1	6720.7	6749.5	6775.8	6787.8
7.5°	6596.1	6611.6	6660.8	6712.3	6738.7
10°	6466.6	6482.2	6538.5	6611.6	6634.4
12.5°	6333.6	6352.8	6403.1	6477.4	6505.0
15°	6204.2	6216.2	6270.1	6331.2	6360.0
17.5°	6071.2	6083.1	6132.3	6180.2	6203.0
20°	5932.1	5945.3	5982.5	6023.2	6048.4
22.5°	5772.8	5785.9	5817.1	5853.1	5875.8
25°	5587.0	5600.2	5621.8	5648.1	5658.9
27.5°	5352.1	5360.5	5340.1	5318.6	5299.4
30°	5033.3	5007.0	4925.5	4821.2	4780.5
32.5°	4580.3	4495.2	4338.3	4211.2	4164.5
35°	3864.9	3825.3	3691.1	3584.5	3549.7
37.5°	3030.8	3057.2	3047.6	3040.4	3047.6
40°	2260.2	2321.3	2453.2	2543.0	2571.8
42.5°	1711.3	1770.1	1918.7	2043.3	2086.4
45°	1390.2	1430.9	1520.8	1615.5	1650.2
47.5°	1199.6	1222.4	1267.9	1318.3	1335.0
50°	1077.4	1087.0	1109.7	1138.5	1148.1
52.5°	980.3	985.1	998.3	1013.9	1016.3
55°	898.8	902.4	910.8	920.4	924.0
57.5°	830.5	834.1	836.5	842.5	844.9
60°	776.6	776.6	781.4	786.2	788.6
62.5°	717.8	717.8	722.6	727.4	727.4
65°	640.0	642.3	647.1	651.9	651.9
67.5°	554.9	556.1	559.7	564.5	563.3
70°	469.8	469.8	473.4	475.8	477.0
72.5°	388.3	387.1	393.1	394.3	390.7
75°	310.4	310.4	314.0	315.2	315.2
77.5°	242.1	240.9	240.9	242.1	243.3
80°	177.4	178.6	177.4	179.8	182.2
82.5°	123.4	122.2	122.2	122.2	121.0
85°	71.9	71.9	71.9	73.1	71.9
87.5°	28.8	28.8	27.6	27.6	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)