

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: P247464

Luminaire Tested: **LD8B100D010 ER8B100940 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100940 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10801.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

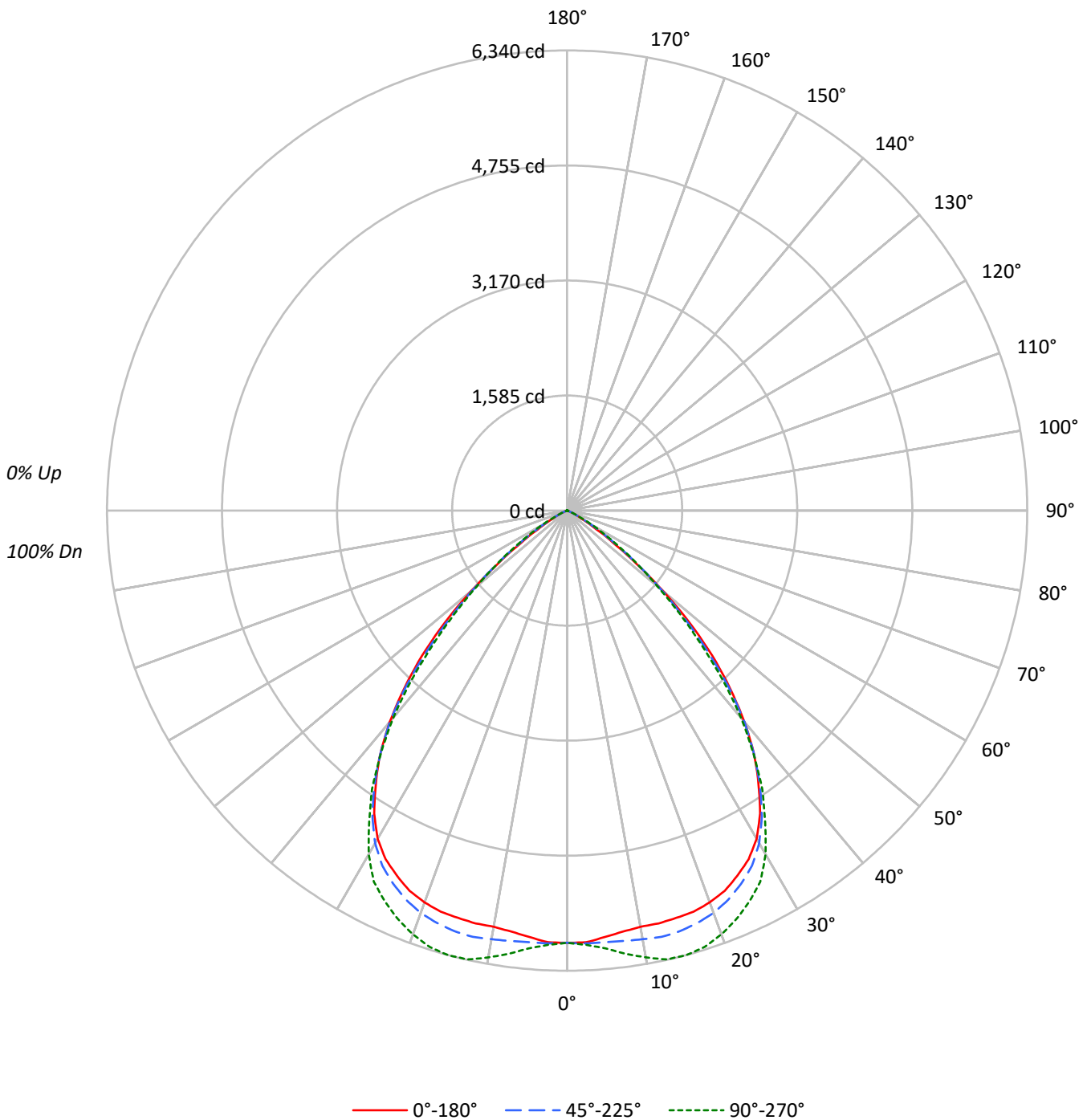
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	45°	90°
0°	183630	183630	183630
5°	182611	184796	187378
10°	182295	187769	195741
15°	185489	191548	202412
20°	188501	193555	203885
25°	188830	193005	202141
30°	185949	188381	194648
35°	173062	174195	176374
40°	152961	152772	150022
45°	123209	118617	114020
50°	82734	80566	77845
55°	42004	45611	48412
60°	17200	21055	24558
65°	6421	6844	8026
70°	415	415	316
75°	822	1382	1787
80°	213	0	0
85°	814	0	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.8	5.3
10°-20°	1704.2	15.8
20°-30°	2622.4	24.3
30°-40°	2872.2	26.6
40°-50°	2088.4	19.3
50°-60°	803.4	7.4
60°-70°	125.8	1.2
70°-80°	9.0	0.1
80°-90°	3.7	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
0°-30°	4898.4	45.4
0°-40°	7770.7	71.9
0°-60°	10662.5	98.7
0°-90°	10801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5955	5955	5955	5955	5955	
5°	5899	5930	5970	6027	6053	561
15°	5810	5856	6000	6222	6340	1644
25°	5550	5584	5673	5840	5941	2553
35°	4597	4597	4627	4656	4685	2855
45°	2825	2796	2720	2650	2615	2148
55°	781	802	848	876	900	763
65°	88	91	94	106	110	108
75°	7	15	12	15	15	9
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5955.0	5955.0	5955.0	5955.0	5955.0
2.5°	5953.8	5963.1	5968.9	5981.6	5987.4
5°	5899.4	5929.5	5970.0	6026.8	6053.4
7.5°	5852.0	5893.6	5980.5	6103.1	6157.5
10°	5821.9	5867.0	5996.7	6163.3	6251.3
12.5°	5825.4	5875.1	6015.2	6215.4	6333.5
15°	5810.3	5855.5	6000.1	6222.4	6340.4
17.5°	5793.0	5830.0	5958.5	6176.1	6303.4
20°	5744.3	5775.6	5898.3	6095.0	6213.1
22.5°	5671.4	5700.4	5802.2	5985.1	6093.9
25°	5549.9	5583.5	5672.6	5840.4	5941.1
27.5°	5414.5	5434.1	5516.3	5669.1	5765.2
30°	5222.3	5229.3	5290.6	5408.7	5466.6
32.5°	4948.0	4946.9	4993.2	5052.2	5074.2
35°	4597.3	4597.3	4627.4	4656.4	4685.3
37.5°	4232.7	4228.1	4231.6	4238.5	4214.2
40°	3799.9	3790.6	3795.2	3753.6	3726.9
42.5°	3325.3	3333.4	3287.1	3213.0	3185.3
45°	2825.3	2796.4	2720.0	2650.5	2614.6
47.5°	2294.0	2248.9	2176.0	2104.2	2098.4
50°	1724.6	1726.9	1679.4	1638.9	1622.7
52.5°	1196.8	1209.5	1233.8	1238.5	1244.2
55°	781.3	802.1	848.4	876.2	900.5
57.5°	478.0	516.2	555.6	607.7	612.3
60°	278.9	297.5	341.4	380.8	398.2
62.5°	157.4	174.8	184.0	207.2	213.0
65°	88.0	91.4	93.8	106.5	110.0
67.5°	53.2	55.6	57.9	56.7	59.0
70°	4.6	10.4	4.6	5.8	3.5
72.5°	19.7	12.7	13.9	10.4	6.9
75°	6.9	15.0	11.6	15.0	15.0
77.5°	4.6	3.5	5.8	6.9	5.8
80°	1.2	0.0	0.0	0.0	0.0
82.5°	10.4	9.3	5.8	9.3	3.5
85°	2.3	0.0	0.0	0.0	2.3
87.5°	6.9	3.5	3.5	8.1	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)