

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: P247582

Luminaire Tested: **LD8B80D010 ER8B80835 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5530.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

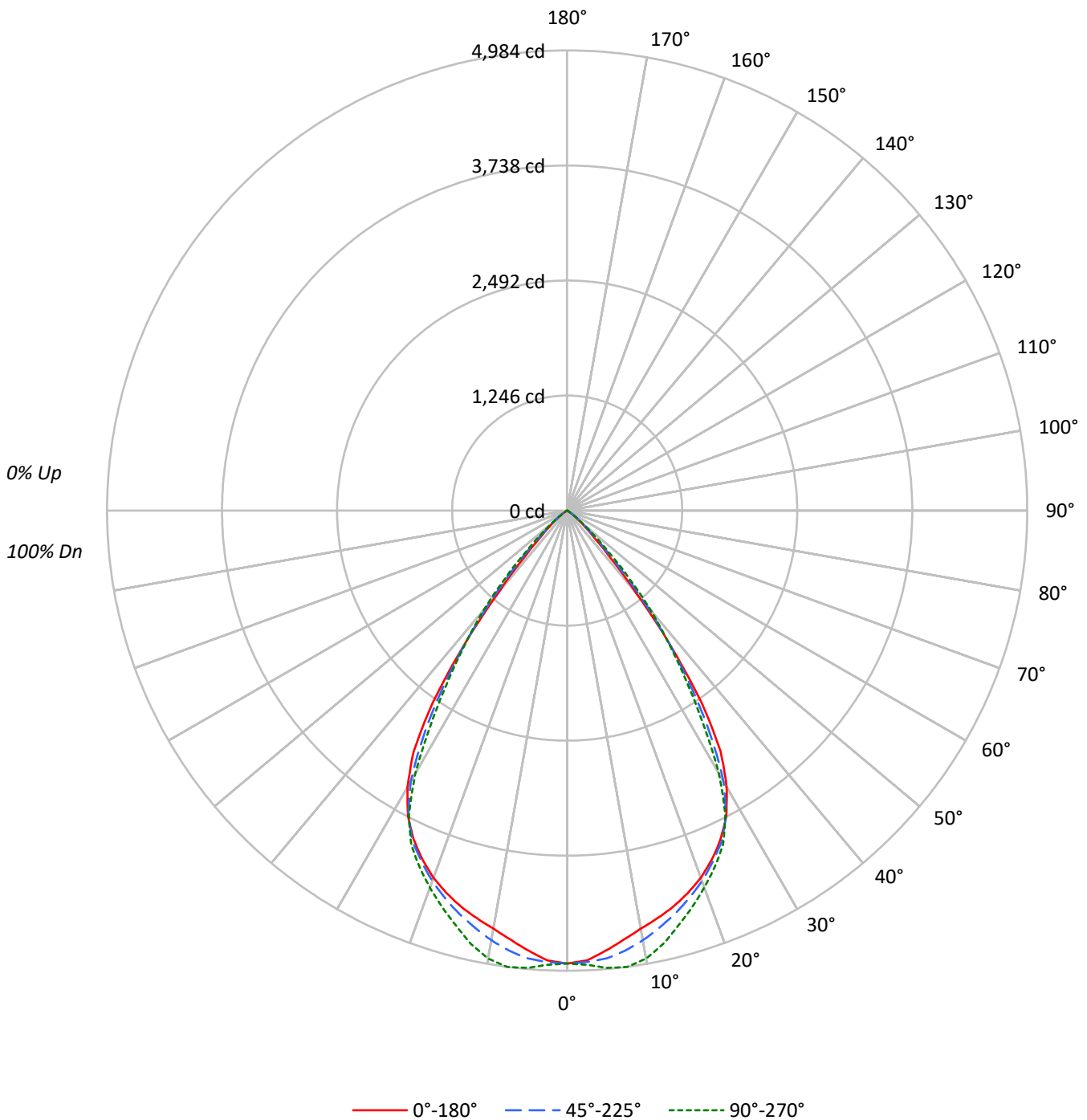
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47

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

	0°	45°	90°
0°	151252	151252	151252
5°	148146	150746	153904
10°	143973	147981	154274
15°	141775	144297	148543
20°	138874	140154	142583
25°	133749	134701	135892
30°	123057	120671	117110
35°	95353	88840	84398
40°	46332	52572	56315
45°	17923	23069	27953
50°	8395	9595	10986
55°	3494	3763	3871
60°	1172	1110	1048
65°	146	219	219
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.1	8.3
10°-20°	1275.9	23.1
20°-30°	1797.9	32.5
30°-40°	1454.5	26.3
40°-50°	461.8	8.4
50°-60°	73.8	1.3
60°-70°	5.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3534.9	63.9
0°-40°	4989.4	90.2
0°-60°	5525.0	99.9
0°-90°	5530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4905	4905	4905	4905	4905	
5°	4786	4808	4870	4941	4972	451
15°	4441	4458	4520	4606	4653	1251
25°	3931	3938	3959	3981	3994	1795
35°	2533	2464	2360	2275	2242	1502
45°	411	444	529	604	641	383
55°	65	66	70	73	72	68
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4905	4905	4905	4905	4905
2.5°	4877	4882	4894	4917	4924
5°	4786	4808	4870	4941	4972
7.5°	4688	4717	4808	4928	4984
10°	4598	4629	4726	4854	4927
12.5°	4522	4546	4625	4740	4808
15°	4441	4458	4520	4606	4653
17.5°	4344	4359	4400	4467	4503
20°	4232	4236	4271	4314	4345
22.5°	4093	4097	4117	4158	4179
25°	3931	3938	3959	3981	3994
27.5°	3732	3735	3725	3707	3711
30°	3456	3445	3389	3312	3289
32.5°	3094	3021	2900	2792	2748
35°	2533	2464	2360	2275	2242
37.5°	1820	1825	1818	1799	1803
40°	1151	1197	1306	1377	1399
42.5°	691	741	861	957	988
45°	411	444	529	604	641
47.5°	264	280	322	366	387
50°	175	183	200	220	229
52.5°	112	115	123	130	137
55°	65	66	70	73	72
57.5°	34	34	34	34	34
60°	19	18	18	18	17
62.5°	9	9	9	8	8
65°	2	3	3	3	3
67.5°	0	0	0	0	1
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)