

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: P247282

Luminaire Tested: **LD8B80D010 ER8B809730 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809730 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6077.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

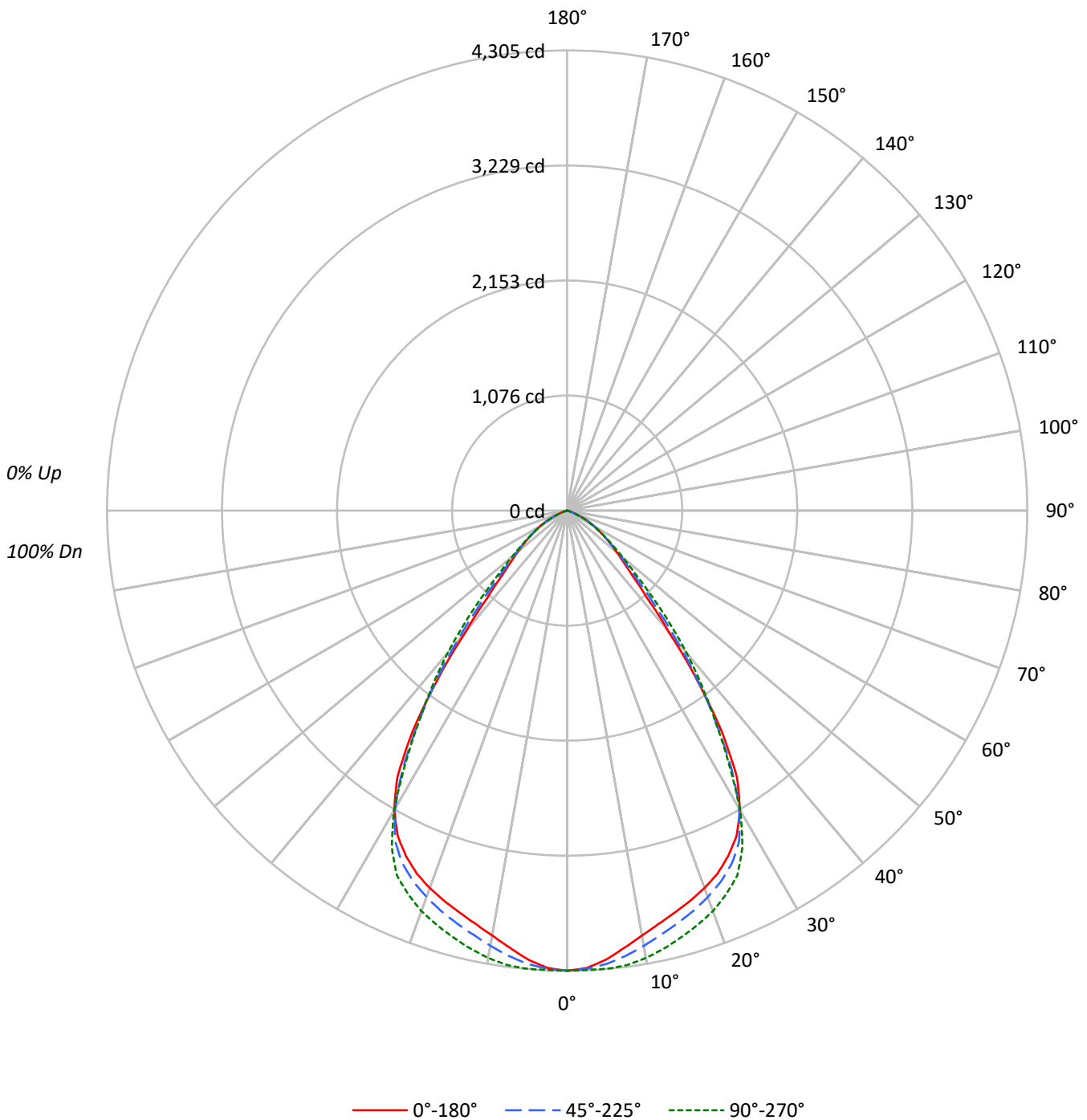
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83	83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75	75	75	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68	68	68	68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	56	56	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51	51	51	51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	47	47	47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40	40	40	40			

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.6	6.6
10°-20°	1130.5	18.6
20°-30°	1664.9	27.4
30°-40°	1514.3	24.9
40°-50°	783.9	12.9
50°-60°	392.7	6.5
60°-70°	159.9	2.6
70°-80°	25.5	0.4
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
0°-30°	3197.9	52.6
0°-40°	4712.2	77.5
0°-60°	5888.8	96.9
0°-90°	6077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4305	4305	4305	4305	4305	
5°	4215	4226	4256	4288	4303	396
15°	3892	3919	3995	4088	4132	1100
25°	3566	3590	3645	3728	3767	1633
35°	2521	2504	2432	2411	2426	1520
45°	864	894	961	1035	1081	712
55°	427	426	426	434	441	388
65°	165	164	158	156	154	166
75°	22	21	20	18	18	28
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4304.8	4304.8	4304.8	4304.8	4304.8
2.5°	4282.0	4284.2	4290.1	4296.7	4301.9
5°	4215.0	4226.0	4255.5	4287.9	4302.6
7.5°	4123.6	4147.9	4201.7	4262.1	4288.6
10°	4036.7	4064.7	4134.7	4215.7	4249.6
12.5°	3960.1	3987.3	4063.2	4153.8	4195.8
15°	3892.3	3918.8	3995.4	4087.5	4131.7
17.5°	3828.2	3852.5	3925.5	4017.5	4062.5
20°	3756.8	3778.1	3847.4	3936.5	3986.6
22.5°	3675.7	3691.9	3756.8	3841.5	3885.7
25°	3566.0	3590.3	3644.8	3728.0	3767.1
27.5°	3431.9	3447.4	3485.0	3535.8	3552.0
30°	3233.0	3232.3	3219.8	3219.8	3240.4
32.5°	2956.8	2921.4	2861.8	2825.7	2822.7
35°	2520.7	2504.5	2431.6	2411.0	2425.7
37.5°	1988.9	1999.9	2018.3	2047.8	2074.3
40°	1476.9	1504.9	1608.8	1701.6	1742.1
42.5°	1102.0	1138.1	1244.2	1345.8	1395.2
45°	864.1	894.3	960.6	1035.0	1081.4
47.5°	714.5	730.0	765.4	815.4	839.0
50°	604.8	612.1	628.3	654.1	672.5
52.5°	513.4	510.5	519.3	536.3	542.9
55°	427.2	425.8	425.8	433.9	441.2
57.5°	354.3	352.1	347.7	351.4	353.6
60°	290.2	288.0	284.3	283.6	282.9
62.5°	233.5	229.8	222.5	221.0	221.0
65°	165.0	164.3	158.4	156.2	154.0
67.5°	102.4	99.4	94.3	89.9	89.1
70°	61.1	60.4	56.0	53.0	53.0
72.5°	36.8	35.4	33.1	31.7	30.9
75°	22.1	21.4	19.9	18.4	18.4
77.5°	13.3	12.5	11.8	11.0	11.0
80°	7.4	7.4	6.6	6.6	6.6
82.5°	4.4	4.4	3.7	3.7	3.7
85°	2.2	2.2	2.2	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)