

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: P247678

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247678
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: LSR8B80D010 EC8B80835 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8655.9 lumens
Efficiency: N/A
Efficacy: 116.3 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

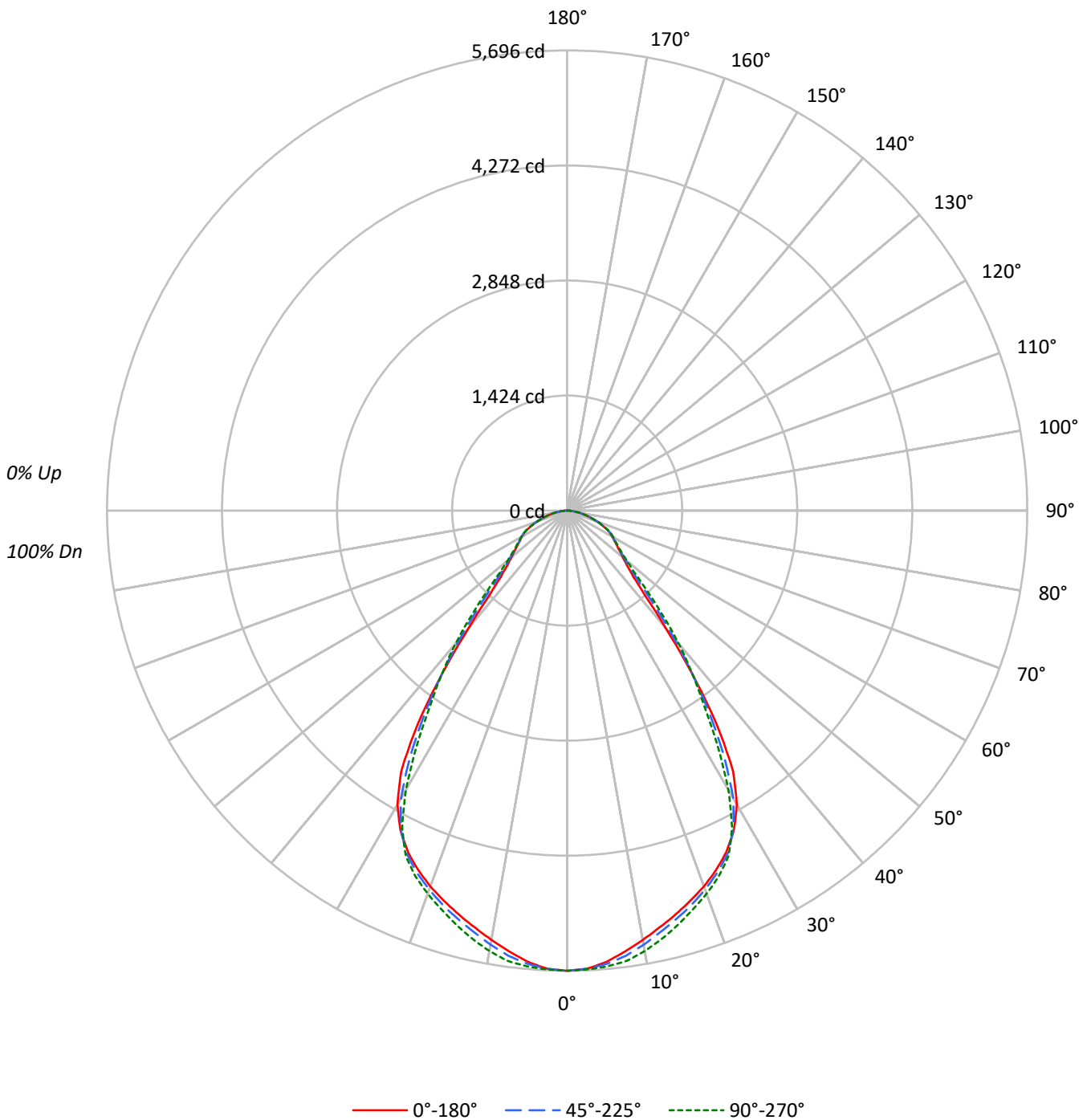
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	175653	175653	175653
5°	173507	174343	175333
10°	168966	170845	173350
15°	165277	167033	169428
20°	162442	163821	165625
25°	158627	159614	160669
30°	149555	146351	142042
35°	121406	115948	111506
40°	75923	82404	86389
45°	50591	55344	60054
50°	43128	44423	45958
55°	40321	40859	41450
60°	39964	40211	40581
65°	38963	39401	39693
70°	35342	35613	35883
75°	30858	31215	31334
80°	26282	26282	26992
85°	21228	21228	21228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	6.1
10°-20°	1476.8	17.1
20°-30°	2134.9	24.7
30°-40°	1910.6	22.1
40°-50°	1034.0	11.9
50°-60°	689.1	8.0
60°-70°	527.7	6.1
70°-80°	279.7	3.2
80°-90°	70.8	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°	4144.0	47.9
0°-40°	6054.6	69.9
0°-60°	7777.7	89.9
0°-90°	8655.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8655.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5696	5696	5696	5696	5696	
5°	5605	5608	5632	5654	5664	528
15°	5177	5187	5232	5283	5307	1461
25°	4662	4673	4691	4713	4722	2133
35°	3225	3192	3080	2991	2962	1952
45°	1160	1194	1269	1348	1377	955
55°	750	753	760	768	771	678
65°	534	536	540	544	544	523
75°	259	259	262	263	263	278
85°	60	60	60	61	60	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5696.3	5696.3	5696.3	5696.3	5696.3
2.5°	5677.3	5675.3	5676.3	5682.3	5685.3
5°	5605.3	5608.3	5632.3	5654.3	5664.3
7.5°	5504.2	5517.2	5558.2	5601.3	5623.3
10°	5396.2	5409.2	5456.2	5517.2	5536.2
12.5°	5285.2	5301.2	5343.2	5405.2	5428.2
15°	5177.2	5187.2	5232.2	5283.2	5307.2
17.5°	5066.2	5076.2	5117.2	5157.2	5176.2
20°	4950.2	4961.2	4992.2	5026.2	5047.2
22.5°	4817.2	4828.2	4854.2	4884.2	4903.2
25°	4662.2	4673.2	4691.2	4713.2	4722.2
27.5°	4466.2	4473.2	4456.2	4438.2	4422.2
30°	4200.2	4178.2	4110.2	4023.2	3989.2
32.5°	3822.2	3751.2	3620.2	3514.2	3475.2
35°	3225.1	3192.1	3080.1	2991.1	2962.1
37.5°	2529.1	2551.1	2543.1	2537.1	2543.1
40°	1886.1	1937.1	2047.1	2122.1	2146.1
42.5°	1428.1	1477.1	1601.1	1705.1	1741.1
45°	1160.1	1194.1	1269.1	1348.1	1377.1
47.5°	1001.0	1020.0	1058.0	1100.0	1114.1
50°	899.0	907.0	926.0	950.0	958.0
52.5°	818.0	822.0	833.0	846.0	848.0
55°	750.0	753.0	760.0	768.0	771.0
57.5°	693.0	696.0	698.0	703.0	705.0
60°	648.0	648.0	652.0	656.0	658.0
62.5°	599.0	599.0	603.0	607.0	607.0
65°	534.0	536.0	540.0	544.0	544.0
67.5°	463.0	464.0	467.0	471.0	470.0
70°	392.0	392.0	395.0	397.0	398.0
72.5°	324.0	323.0	328.0	329.0	326.0
75°	259.0	259.0	262.0	263.0	263.0
77.5°	202.0	201.0	201.0	202.0	203.0
80°	148.0	149.0	148.0	150.0	152.0
82.5°	103.0	102.0	102.0	102.0	101.0
85°	60.0	60.0	60.0	61.0	60.0
87.5°	24.0	24.0	23.0	23.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)