

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: P247574

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247574
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: LSR8B80D010 EC8B80827 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5188.0 lumens
Efficiency: N/A
Efficacy: 69.7 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

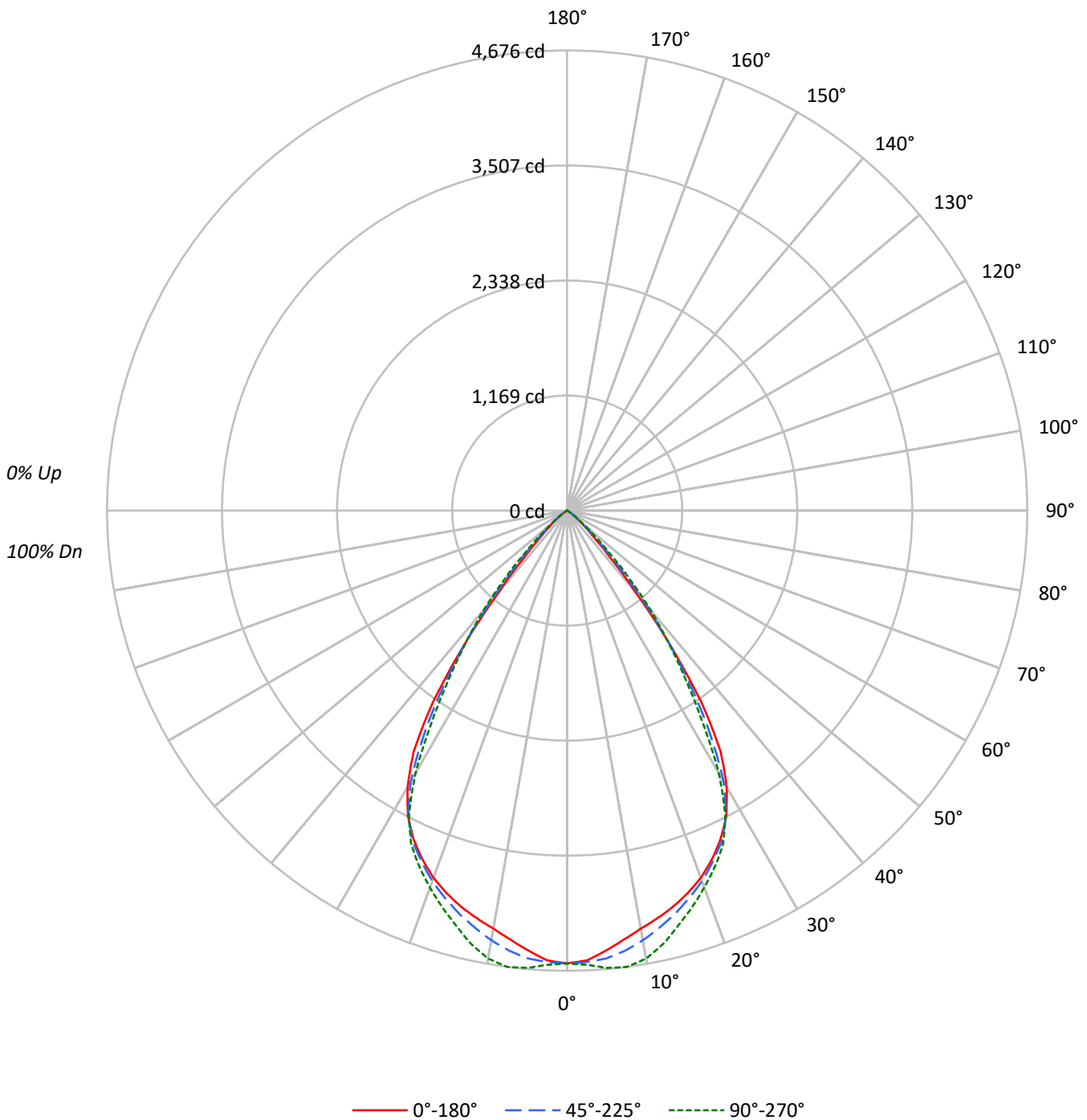
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	141899	141899	141899
5°	138984	141423	144385
10°	135068	138828	144734
15°	133009	135374	139355
20°	130287	131488	133765
25°	125478	126372	127488
30°	115448	113208	109868
35°	89454	83344	79177
40°	43466	49319	52833
45°	16816	21643	26227
50°	7877	9000	10305
55°	3279	3532	3629
60°	1098	1042	981
65°	139	204	204
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°	432.5	8.3
10°-20°	1197.0	23.1
20°-30°	1686.7	32.5
30°-40°	1364.6	26.3
40°-50°	433.2	8.4
50°-60°	69.3	1.3
60°-70°	4.7	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°	3316.3	63.9
0°-40°	4680.8	90.2
0°-60°	5183.3	99.9
0°-90°	5188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4602	4602	4602	4602	4602	
5°	4490	4511	4569	4635	4664	423
15°	4166	4182	4240	4321	4365	1173
25°	3688	3694	3714	3735	3747	1684
35°	2376	2312	2214	2134	2103	1409
45°	386	416	496	567	601	359
55°	61	62	66	68	68	64
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°	4601.7	4601.7	4601.7	4601.7	4601.7
2.5°	4575.4	4580.1	4591.3	4612.9	4619.5
5°	4490.0	4510.7	4568.8	4635.4	4664.5
7.5°	4398.1	4425.3	4510.7	4623.2	4675.8
10°	4313.6	4342.7	4433.7	4553.8	4622.3
12.5°	4242.3	4264.9	4339.0	4446.9	4510.7
15°	4166.4	4182.3	4240.5	4321.1	4365.2
17.5°	4075.3	4089.4	4127.9	4190.7	4224.5
20°	3970.3	3974.0	4006.9	4047.2	4076.3
22.5°	3839.9	3843.6	3862.4	3900.9	3920.6
25°	3687.9	3694.5	3714.2	3734.8	3747.0
27.5°	3501.2	3504.0	3494.6	3477.7	3481.5
30°	3242.3	3231.9	3179.4	3107.2	3085.6
32.5°	2902.7	2834.2	2720.7	2619.3	2578.1
35°	2376.3	2311.6	2214.0	2134.3	2103.3
37.5°	1707.4	1712.1	1705.6	1687.7	1691.5
40°	1079.8	1123.0	1225.2	1291.8	1312.5
42.5°	648.3	695.2	807.8	897.8	926.9
45°	385.6	416.5	496.3	566.6	601.4
47.5°	247.7	262.7	302.1	343.4	363.1
50°	164.2	171.7	187.6	206.4	214.8
52.5°	105.1	107.9	115.4	122.0	128.5
55°	61.0	61.9	65.7	68.5	67.5
57.5°	31.9	31.9	31.9	31.9	31.9
60°	17.8	16.9	16.9	16.9	15.9
62.5°	8.4	8.4	8.4	7.5	7.5
65°	1.9	2.8	2.8	2.8	2.8
67.5°	0.0	0.0	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)