

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: P247486

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7591.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

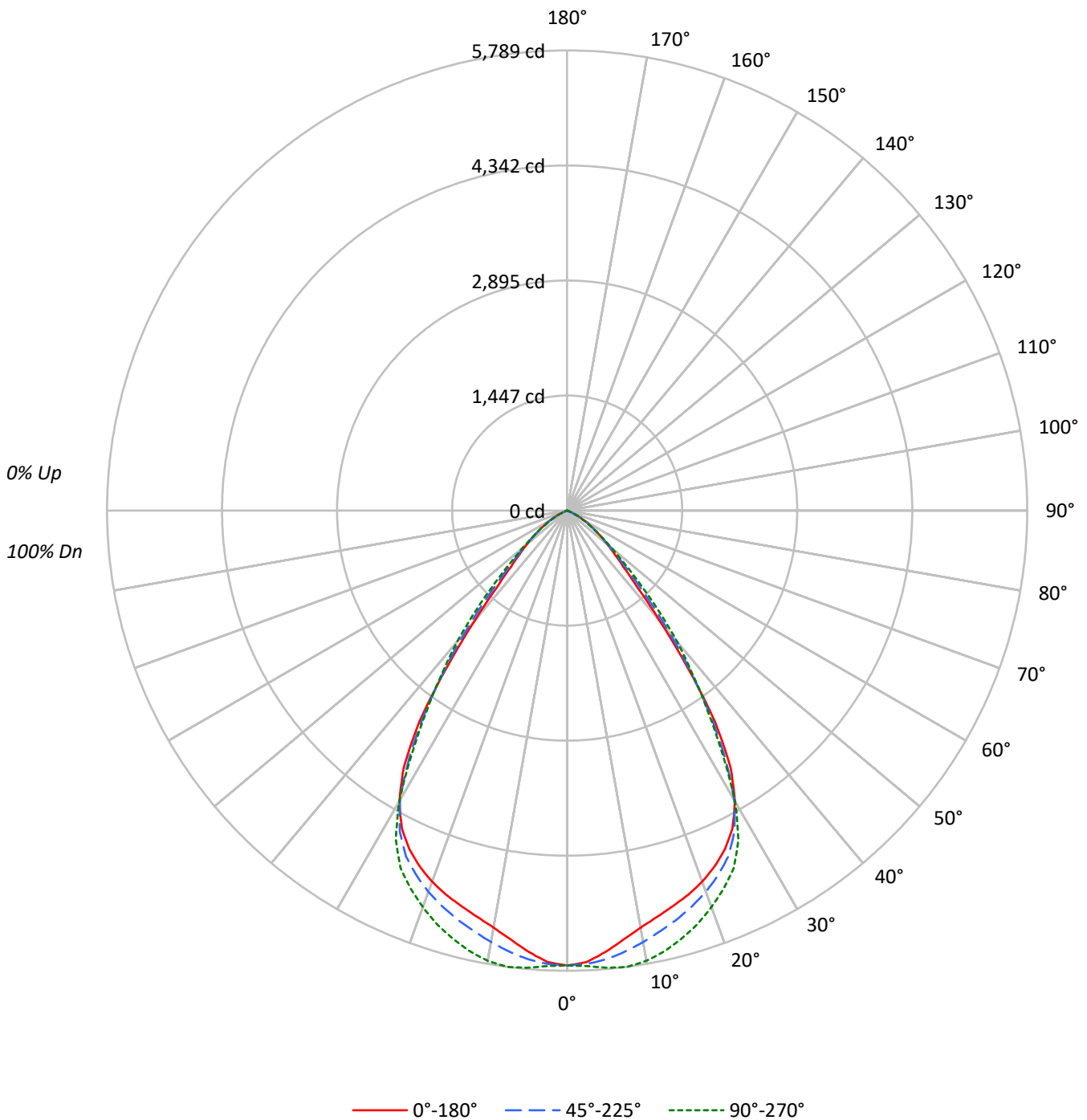
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	176467	176467	176467
5°	172467	175377	178717
10°	166758	172582	180097
15°	164400	170018	177903
20°	163017	167480	174207
25°	159869	163271	168749
30°	150285	149716	150428
35°	122110	118007	116200
40°	72493	79900	86542
45°	43387	48838	55466
50°	31614	32430	34828
55°	22902	22096	22580
60°	15542	14370	13815
65°	7807	7224	6859
70°	2164	1893	1713
75°	834	596	596
80°	355	355	178
85°	354	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	7.1
10°-20°	1506.8	19.8
20°-30°	2190.0	28.8
30°-40°	1936.7	25.5
40°-50°	921.3	12.1
50°-60°	383.8	5.1
60°-70°	107.2	1.4
70°-80°	8.1	0.1
80°-90°	0.6	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°	4233.3	55.8
0°-40°	6170.0	81.3
0°-60°	7475.1	98.5
0°-90°	7591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5723	5723	5723	5723	5723	
5°	5572	5600	5666	5741	5774	524
15°	5150	5197	5326	5488	5573	1455
25°	4699	4720	4799	4905	4960	2147
35°	3244	3198	3135	3087	3087	1942
45°	995	1030	1120	1224	1272	828
55°	426	421	411	411	420	388
65°	107	105	99	95	94	117
75°	7	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5722.7	5722.7	5722.7	5722.7	5722.7
2.5°	5684.7	5689.7	5708.7	5726.7	5734.7
5°	5571.7	5599.7	5665.7	5740.7	5773.6
7.5°	5442.7	5484.7	5595.7	5727.7	5788.6
10°	5325.7	5378.7	5511.7	5674.7	5751.7
12.5°	5233.7	5282.7	5418.7	5588.7	5675.7
15°	5149.7	5196.7	5325.7	5487.7	5572.7
17.5°	5065.7	5110.7	5221.7	5372.7	5454.7
20°	4967.7	5003.7	5103.7	5236.7	5308.7
22.5°	4845.7	4878.7	4962.7	5080.7	5145.7
25°	4698.7	4719.7	4798.7	4904.7	4959.7
27.5°	4503.7	4508.7	4556.7	4625.7	4666.7
30°	4220.7	4217.7	4204.7	4201.7	4224.7
32.5°	3824.8	3780.8	3704.8	3668.8	3640.8
35°	3243.8	3197.8	3134.8	3086.8	3086.8
37.5°	2479.8	2519.8	2544.8	2574.8	2589.8
40°	1800.9	1859.9	1984.9	2114.9	2149.9
42.5°	1308.9	1363.9	1498.9	1643.9	1685.9
45°	994.9	1029.9	1119.9	1223.9	1271.9
47.5°	804.0	814.0	858.9	920.9	943.9
50°	659.0	662.0	676.0	708.0	726.0
52.5°	533.0	531.0	535.0	544.0	552.0
55°	426.0	421.0	411.0	411.0	420.0
57.5°	329.0	322.0	311.0	306.0	303.0
60°	252.0	245.0	233.0	225.0	224.0
62.5°	181.0	175.0	163.0	156.0	154.0
65°	107.0	105.0	99.0	95.0	94.0
67.5°	50.0	48.0	43.0	41.0	40.0
70°	24.0	23.0	21.0	20.0	19.0
72.5°	12.0	12.0	10.0	10.0	10.0
75°	7.0	6.0	5.0	5.0	5.0
77.5°	4.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	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)