

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: P247518

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247518
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 EC8B80927 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5945.7 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

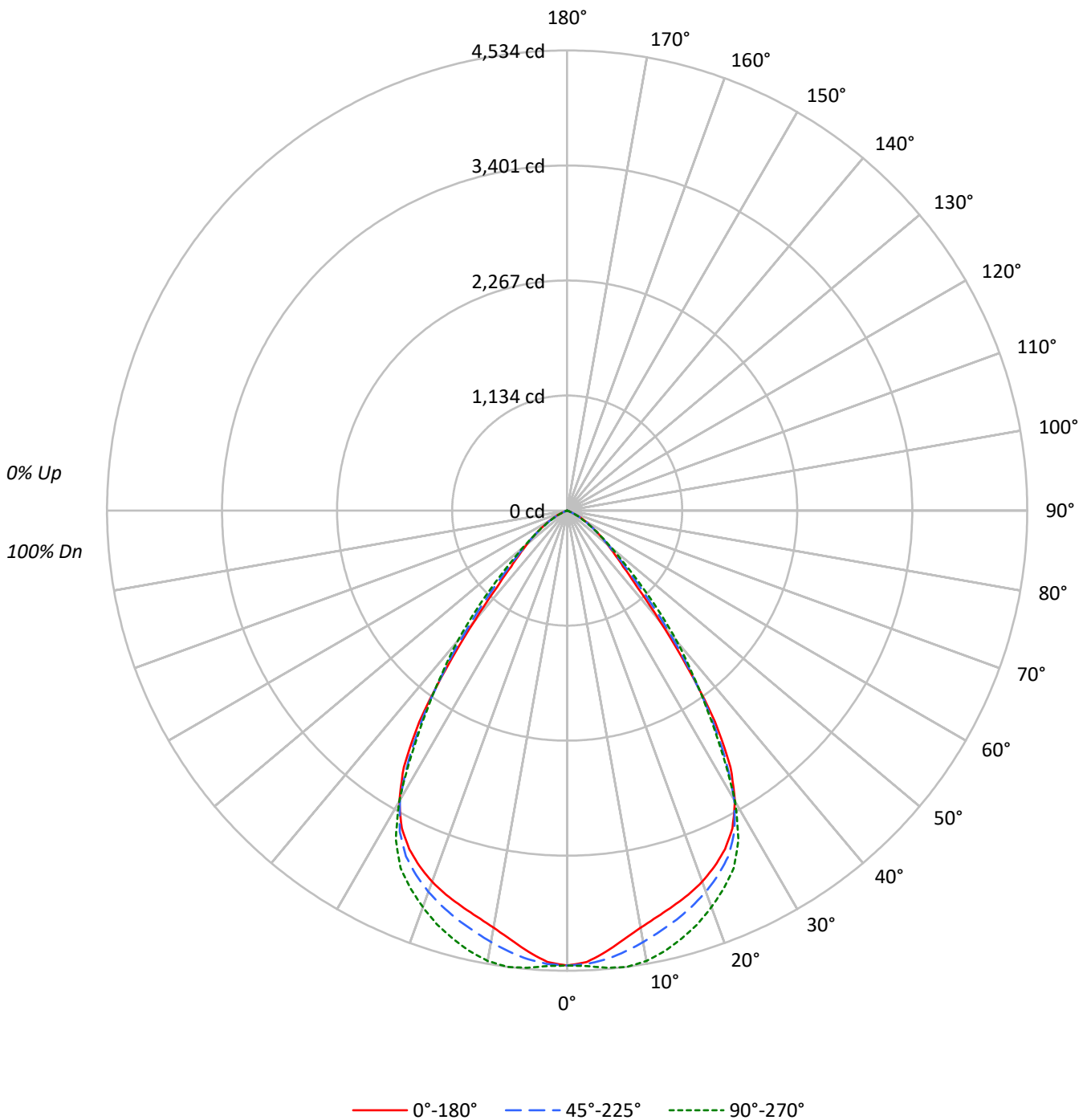
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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°	420.3	7.1
10°-20°	1180.2	19.8
20°-30°	1715.3	28.8
30°-40°	1516.9	25.5
40°-50°	721.6	12.1
50°-60°	300.6	5.1
60°-70°	84.0	1.4
70°-80°	6.4	0.1
80°-90°	0.5	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°	3315.8	55.8
0°-40°	4832.7	81.3
0°-60°	5854.9	98.5
0°-90°	5945.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5945.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4482	4482	4482	4482	4482	
5°	4364	4386	4438	4496	4522	410
15°	4034	4070	4171	4298	4365	1139
25°	3680	3697	3759	3842	3885	1682
35°	2541	2505	2455	2418	2418	1521
45°	779	807	877	959	996	649
55°	334	330	322	322	329	304
65°	84	82	78	74	74	91
75°	6	5	4	4	4	7
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°	4482.2	4482.2	4482.2	4482.2	4482.2
2.5°	4452.5	4456.3	4471.3	4485.4	4491.7
5°	4364.0	4385.9	4437.6	4496.4	4522.2
7.5°	4263.0	4295.8	4382.8	4486.2	4534.0
10°	4171.3	4212.8	4317.0	4444.7	4505.0
12.5°	4099.3	4137.6	4244.2	4377.3	4445.4
15°	4033.5	4070.2	4171.3	4298.2	4364.8
17.5°	3967.6	4003.0	4089.8	4208.2	4272.3
20°	3890.9	3919.2	3997.5	4101.6	4158.0
22.5°	3795.4	3821.2	3887.0	3979.5	4030.3
25°	3680.2	3696.8	3758.6	3841.5	3884.6
27.5°	3527.6	3531.5	3569.1	3623.1	3655.2
30°	3305.9	3303.6	3293.3	3291.0	3309.0
32.5°	2995.8	2961.2	2901.7	2873.6	2851.6
35°	2540.7	2504.7	2455.3	2417.7	2417.7
37.5°	1942.3	1973.7	1993.3	2016.8	2028.5
40°	1410.5	1456.8	1554.6	1656.4	1683.9
42.5°	1025.2	1068.3	1174.0	1287.6	1320.5
45°	779.3	806.7	877.2	958.6	996.2
47.5°	629.7	637.5	672.8	721.4	739.4
50°	516.2	518.5	529.4	554.5	568.6
52.5°	417.5	415.9	419.1	426.0	432.3
55°	333.7	329.7	321.9	321.9	329.0
57.5°	257.6	252.2	243.6	239.6	237.3
60°	197.3	191.9	182.5	176.2	175.4
62.5°	141.8	137.0	127.7	122.2	120.6
65°	83.8	82.2	77.5	74.4	73.6
67.5°	39.2	37.6	33.6	32.1	31.3
70°	18.8	18.0	16.4	15.6	14.8
72.5°	9.5	9.5	7.9	7.9	7.9
75°	5.5	4.7	3.9	3.9	3.9
77.5°	3.2	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	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)