

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: P247474

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7705.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

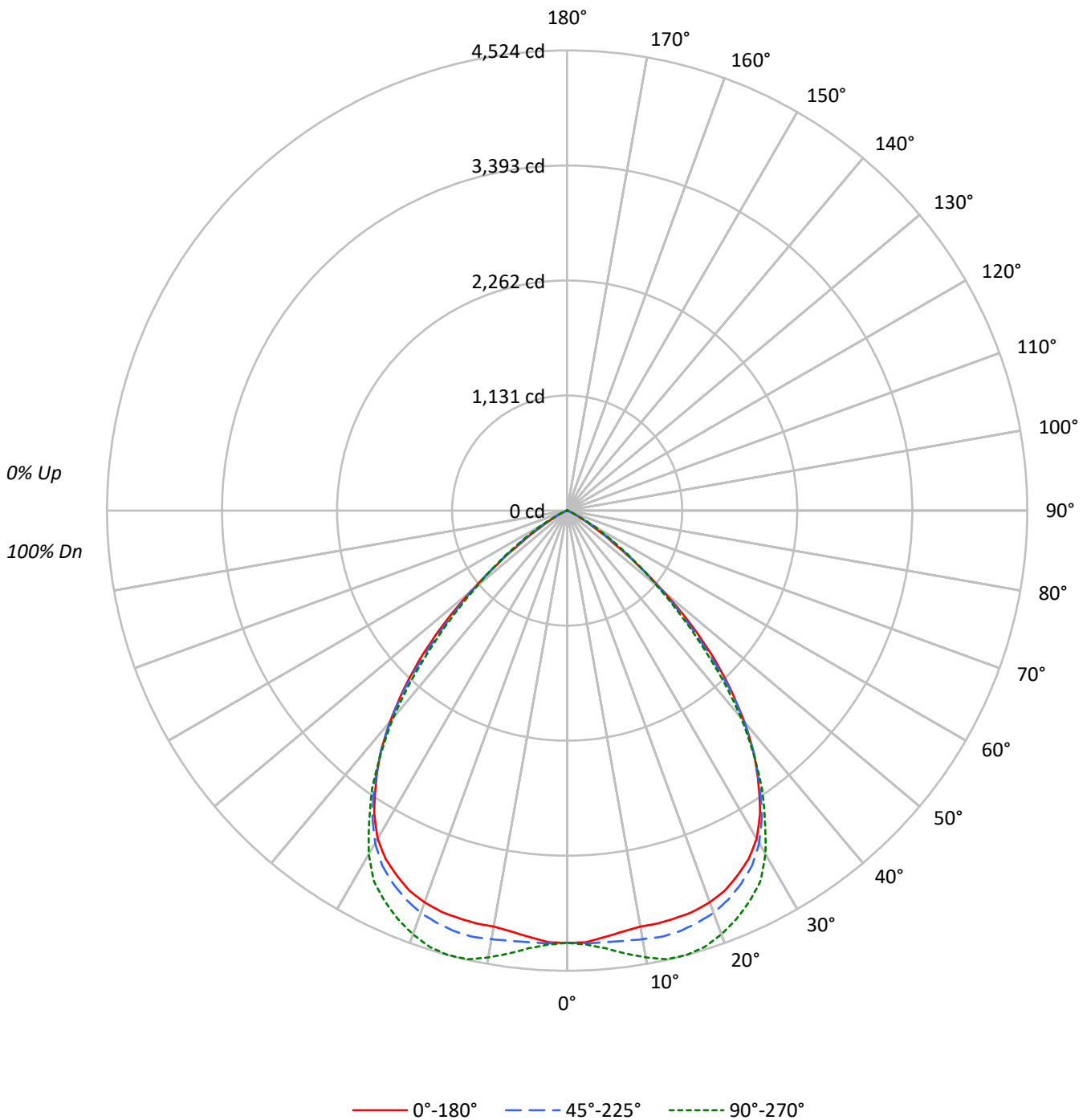
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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°	408.0	5.3
10°-20°	1215.8	15.8
20°-30°	1870.9	24.3
30°-40°	2049.1	26.6
40°-50°	1489.9	19.3
50°-60°	573.2	7.4
60°-70°	89.8	1.2
70°-80°	6.4	0.1
80°-90°	2.6	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°	3494.7	45.4
0°-40°	5543.8	71.9
0°-60°	7606.9	98.7
0°-90°	7705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4248	4248	4248	4248	4248	
5°	4209	4230	4259	4300	4319	400
15°	4145	4177	4281	4439	4524	1173
25°	3960	3983	4047	4167	4239	1821
35°	3280	3280	3301	3322	3343	2037
45°	2016	1995	1940	1891	1865	1532
55°	557	572	605	625	642	544
65°	63	65	67	76	78	77
75°	5	11	8	11	11	6
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4248.5	4248.5	4248.5	4248.5	4248.5
2.5°	4247.7	4254.2	4258.3	4267.4	4271.6
5°	4208.8	4230.3	4259.2	4299.7	4318.7
7.5°	4174.9	4204.8	4266.6	4354.2	4393.0
10°	4153.5	4185.7	4278.2	4397.1	4459.9
12.5°	4156.0	4191.5	4291.4	4434.2	4518.5
15°	4145.2	4177.4	4280.7	4439.3	4523.5
17.5°	4132.9	4159.2	4250.9	4406.2	4497.0
20°	4098.2	4120.5	4208.0	4348.4	4432.7
22.5°	4046.1	4066.8	4139.5	4269.9	4347.6
25°	3959.5	3983.4	4047.0	4166.8	4238.6
27.5°	3862.9	3876.9	3935.5	4044.5	4113.1
30°	3725.8	3730.7	3774.5	3858.7	3900.0
32.5°	3530.0	3529.2	3562.3	3604.4	3620.0
35°	3279.8	3279.8	3301.3	3322.0	3342.6
37.5°	3019.7	3016.5	3019.0	3023.9	3006.5
40°	2710.9	2704.3	2707.7	2677.8	2658.9
42.5°	2372.4	2378.2	2345.1	2292.2	2272.5
45°	2015.7	1995.0	1940.5	1891.0	1865.3
47.5°	1636.7	1604.4	1552.4	1501.2	1497.1
50°	1230.4	1232.0	1198.1	1169.2	1157.7
52.5°	853.9	862.9	880.2	883.6	887.7
55°	557.4	572.3	605.2	625.1	642.4
57.5°	341.0	368.2	396.4	433.5	436.9
60°	199.0	212.2	243.6	271.6	284.1
62.5°	112.3	124.7	131.3	147.9	151.9
65°	62.8	65.2	66.9	76.0	78.5
67.5°	38.0	39.7	41.3	40.5	42.1
70°	3.3	7.4	3.3	4.1	2.5
72.5°	14.0	9.1	9.9	7.4	4.9
75°	4.9	10.8	8.3	10.8	10.8
77.5°	3.3	2.5	4.1	4.9	4.1
80°	0.8	0.0	0.0	0.0	0.0
82.5°	7.4	6.6	4.1	6.6	2.5
85°	1.7	0.0	0.0	0.0	1.7
87.5°	4.9	2.5	2.5	5.8	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)