

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: P247202

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9098.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

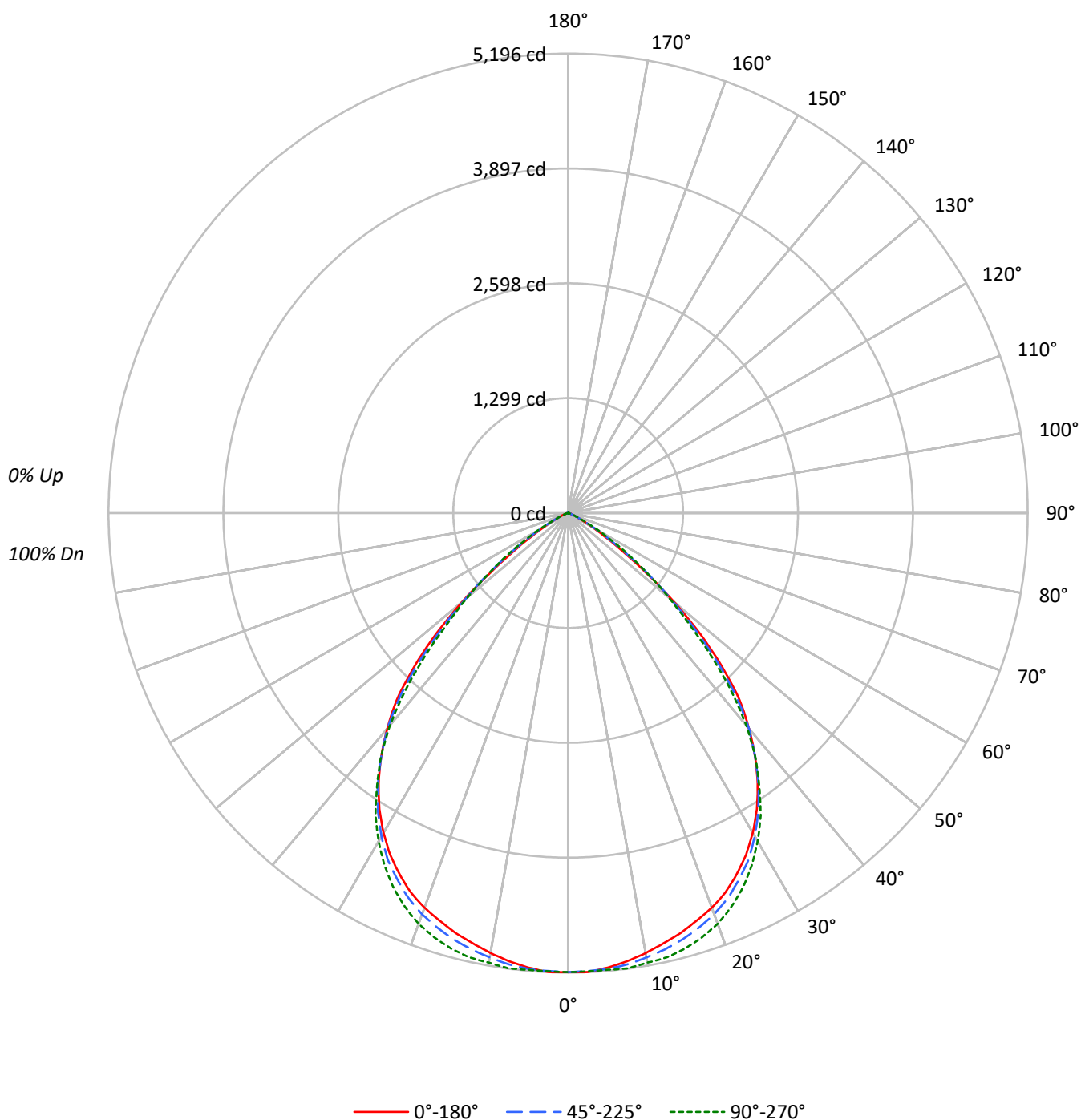
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	160102	160102	160102
5°	159702	160163	160500
10°	158188	159773	161639
15°	156932	159407	162832
20°	155837	158413	162229
25°	153398	155528	158974
30°	148647	150275	152575
35°	140586	141222	141745
40°	128056	127935	126216
45°	107667	104413	99909
50°	74780	73111	71158
55°	40004	44224	46842
60°	19359	21999	24817
65°	8479	8551	8916
70°	4571	4210	4120
75°	4027	3670	2609
80°	178	710	0
85°	354	354	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.8	5.4
10°-20°	1410.5	15.5
20°-30°	2104.6	23.1
30°-40°	2330.8	25.6
40°-50°	1817.7	20.0
50°-60°	761.9	8.4
60°-70°	152.6	1.7
70°-80°	24.3	0.3
80°-90°	3.8	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°	4006.9	44.0
0°-40°	6337.7	69.7
0°-60°	8917.3	98.0
0°-90°	9098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5192	5192	5192	5192	5192	
5°	5159	5163	5174	5188	5185	489
15°	4916	4938	4993	5067	5101	1387
25°	4508	4526	4571	4642	4672	2072
35°	3735	3729	3752	3769	3765	2321
45°	2469	2458	2394	2321	2291	1868
55°	744	773	823	855	871	725
65°	116	116	117	126	122	140
75°	34	31	31	24	22	27
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5192.0	5192.0	5192.0	5192.0	5192.0
2.5°	5196.0	5186.1	5184.1	5190.1	5186.1
5°	5159.3	5163.2	5174.2	5188.1	5185.1
7.5°	5111.6	5118.5	5148.3	5184.1	5193.0
10°	5052.0	5066.9	5102.6	5143.4	5162.2
12.5°	4982.4	5002.3	5053.9	5112.6	5147.3
15°	4915.8	4937.7	4993.3	5066.9	5100.6
17.5°	4832.4	4861.2	4915.8	4995.3	5030.1
20°	4748.9	4774.8	4827.4	4904.9	4943.7
22.5°	4645.6	4664.5	4714.2	4779.7	4819.5
25°	4508.5	4526.4	4571.1	4641.6	4672.4
27.5°	4355.5	4376.4	4417.1	4465.8	4493.6
30°	4174.7	4191.6	4220.4	4264.1	4285.0
32.5°	3971.0	3972.0	4000.8	4033.6	4052.5
35°	3734.6	3728.6	3751.5	3769.3	3765.4
37.5°	3473.3	3474.3	3472.3	3474.3	3478.2
40°	3181.2	3167.3	3178.2	3153.4	3135.5
42.5°	2871.2	2857.3	2814.6	2759.9	2730.1
45°	2468.9	2457.9	2394.3	2320.8	2291.0
47.5°	2026.7	1993.0	1941.3	1878.7	1849.9
50°	1558.8	1554.8	1524.0	1509.1	1483.3
52.5°	1114.7	1114.7	1152.5	1146.5	1145.5
55°	744.1	772.9	822.6	855.4	871.3
57.5°	484.8	511.7	553.4	588.2	604.0
60°	313.9	326.9	356.7	383.5	402.4
62.5°	194.7	205.7	221.6	238.4	245.4
65°	116.2	116.2	117.2	126.2	122.2
67.5°	78.5	81.5	77.5	77.5	87.4
70°	50.7	47.7	46.7	45.7	45.7
72.5°	32.8	27.8	29.8	31.8	27.8
75°	33.8	30.8	30.8	23.8	21.9
77.5°	11.9	12.9	8.9	7.0	6.0
80°	1.0	4.0	4.0	1.0	0.0
82.5°	11.9	10.9	8.9	13.9	8.9
85°	1.0	2.0	1.0	0.0	5.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)