

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: P247198

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247198
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 EC8B80835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9158.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

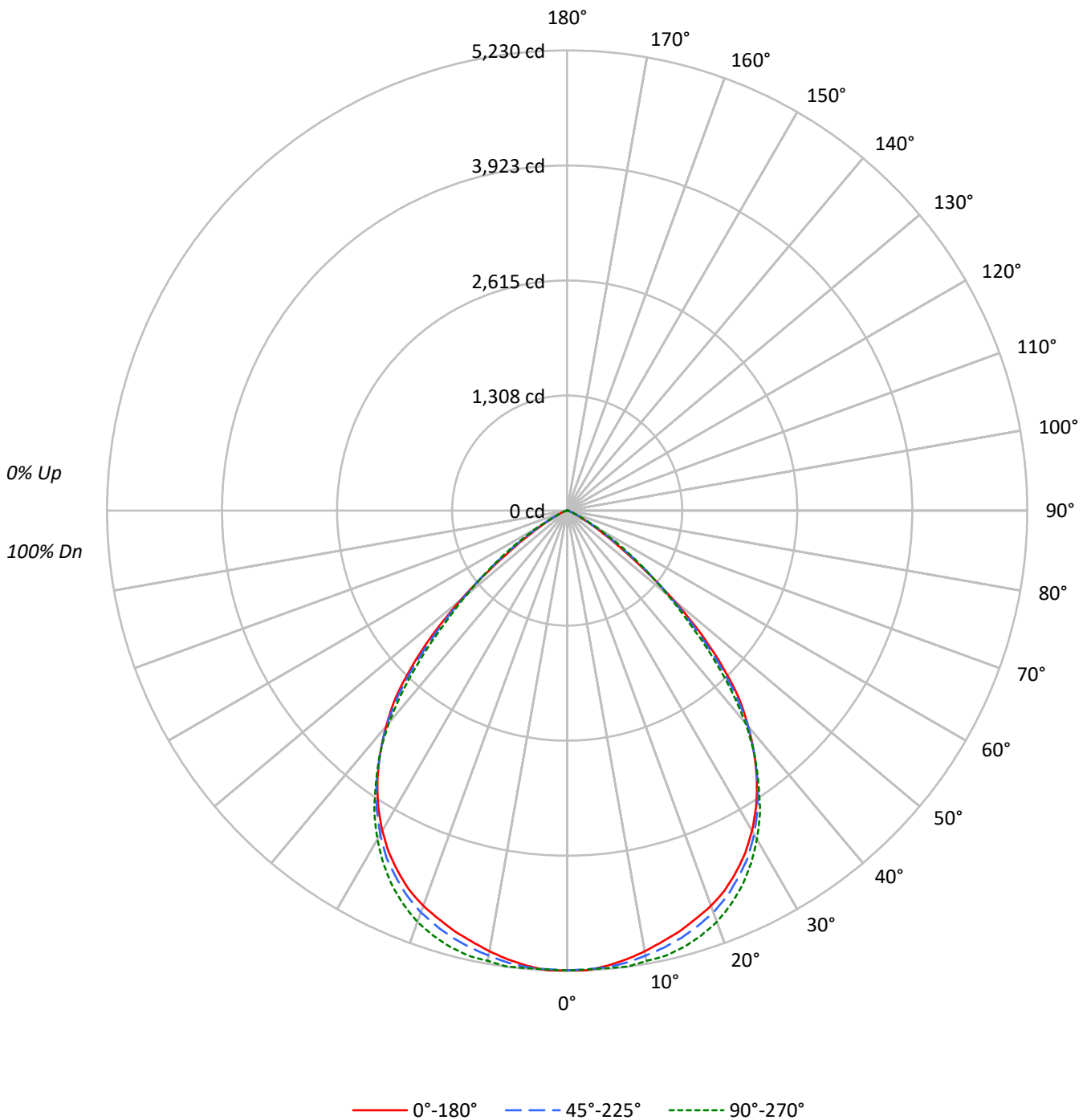
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	161160	161160	161160
5°	160754	161218	161559
10°	159231	160828	162707
15°	157970	160460	163908
20°	156867	159459	163299
25°	154408	156552	160026
30°	149627	151264	153579
35°	141512	142152	142679
40°	128901	128780	127050
45°	108373	105102	100567
50°	75274	73595	71628
55°	40267	44514	47149
60°	19489	22140	24977
65°	8537	8610	8975
70°	4598	4237	4147
75°	4051	3693	2621
80°	178	710	0
85°	354	354	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.1	5.4
10°-20°	1419.8	15.5
20°-30°	2118.4	23.1
30°-40°	2346.2	25.6
40°-50°	1829.7	20.0
50°-60°	766.9	8.4
60°-70°	153.6	1.7
70°-80°	24.4	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°	4033.3	44.0
0°-40°	6379.5	69.7
0°-60°	8976.1	98.0
0°-90°	9158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5226	5226	5226	5226	5226	
5°	5193	5197	5208	5222	5219	492
15°	4948	4970	5026	5100	5134	1396
25°	4538	4556	4601	4672	4703	2085
35°	3759	3753	3776	3794	3790	2336
45°	2485	2474	2410	2336	2306	1880
55°	749	778	828	861	877	730
65°	117	117	118	127	123	141
75°	34	31	31	24	22	28
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°	5226.3	5226.3	5226.3	5226.3	5226.3
2.5°	5230.3	5220.3	5218.3	5224.3	5220.3
5°	5193.3	5197.3	5208.3	5222.3	5219.3
7.5°	5145.3	5152.3	5182.3	5218.3	5227.3
10°	5085.3	5100.3	5136.3	5177.3	5196.3
12.5°	5015.3	5035.3	5087.3	5146.3	5181.3
15°	4948.3	4970.3	5026.3	5100.3	5134.3
17.5°	4864.3	4893.3	4948.3	5028.3	5063.3
20°	4780.3	4806.3	4859.3	4937.3	4976.3
22.5°	4676.2	4695.3	4745.3	4811.3	4851.3
25°	4538.2	4556.2	4601.2	4672.2	4703.3
27.5°	4384.2	4405.2	4446.2	4495.2	4523.2
30°	4202.2	4219.2	4248.2	4292.2	4313.2
32.5°	3997.2	3998.2	4027.2	4060.2	4079.2
35°	3759.2	3753.2	3776.2	3794.2	3790.2
37.5°	3496.2	3497.2	3495.2	3497.2	3501.2
40°	3202.2	3188.2	3199.2	3174.2	3156.2
42.5°	2890.2	2876.2	2833.2	2778.1	2748.1
45°	2485.1	2474.1	2410.1	2336.1	2306.1
47.5°	2040.1	2006.1	1954.1	1891.1	1862.1
50°	1569.1	1565.1	1534.1	1519.1	1493.1
52.5°	1122.1	1122.1	1160.1	1154.1	1153.1
55°	749.0	778.0	828.0	861.0	877.0
57.5°	488.0	515.0	557.0	592.0	608.0
60°	316.0	329.0	359.0	386.0	405.0
62.5°	196.0	207.0	223.0	240.0	247.0
65°	117.0	117.0	118.0	127.0	123.0
67.5°	79.0	82.0	78.0	78.0	88.0
70°	51.0	48.0	47.0	46.0	46.0
72.5°	33.0	28.0	30.0	32.0	28.0
75°	34.0	31.0	31.0	24.0	22.0
77.5°	12.0	13.0	9.0	7.0	6.0
80°	1.0	4.0	4.0	1.0	0.0
82.5°	12.0	11.0	9.0	14.0	9.0
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)