

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: P247562

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7707.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

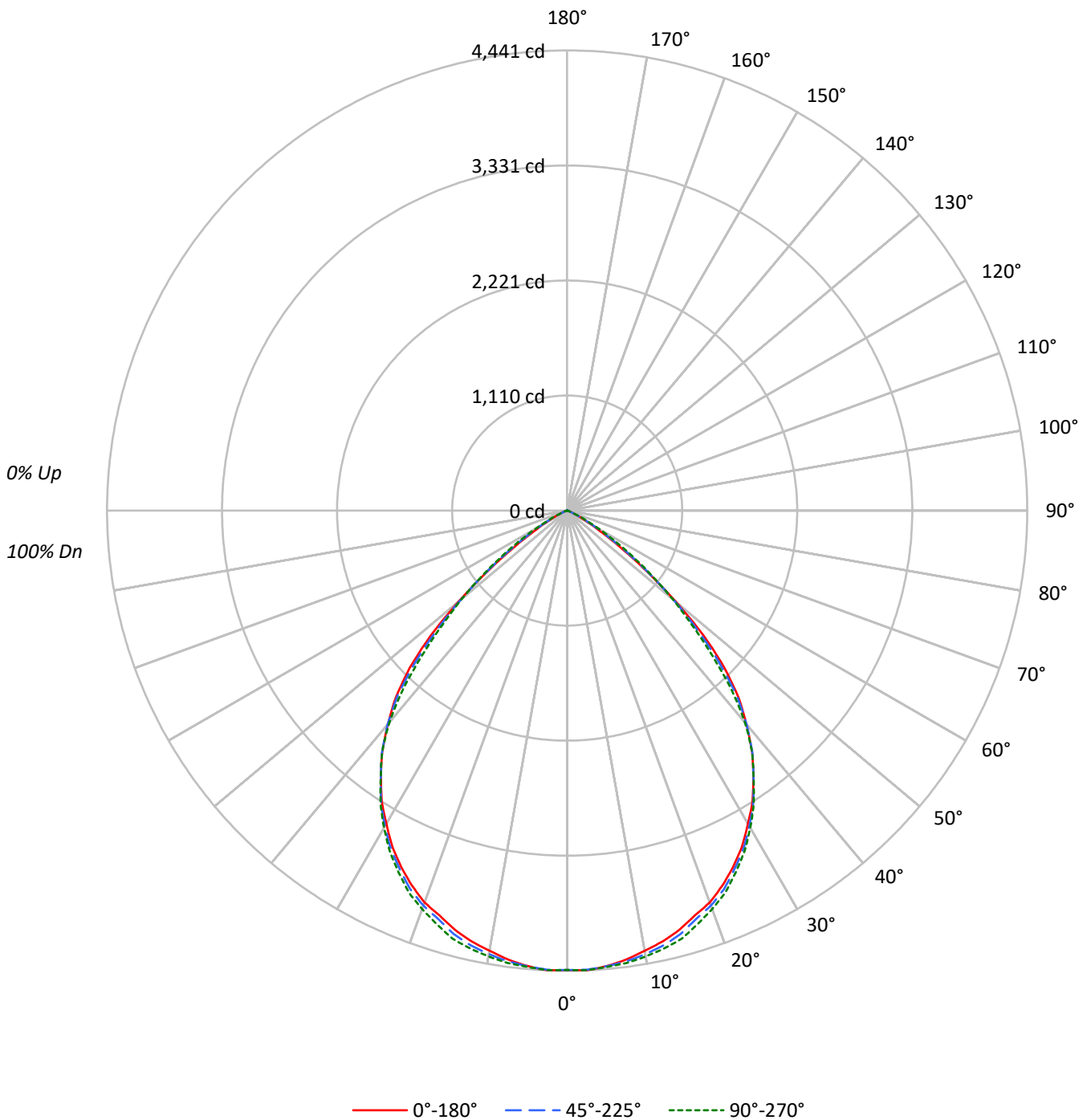
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136719	136719	136719
5°	136554	136613	136811
10°	135074	136113	136805
15°	133682	135064	136536
20°	132055	133115	134267
25°	129016	129955	131023
30°	124278	125232	125888
35°	117920	118026	118060
40°	108352	108541	107426
45°	93738	90441	86420
50°	65737	64408	63569
55°	35692	38671	41197
60°	15751	19223	21783
65°	6056	7603	9084
70°	3074	2741	3579
75°	989	1871	1644
80°	817	160	977
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.4	5.4
10°-20°	1191.1	15.5
20°-30°	1756.5	22.8
30°-40°	1955.1	25.4
40°-50°	1573.4	20.4
50°-60°	669.1	8.7
60°-70°	125.4	1.6
70°-80°	15.2	0.2
80°-90°	1.9	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°	3366.9	43.7
0°-40°	5322.0	69.1
0°-60°	7564.5	98.2
0°-90°	7707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4434	4434	4434	4434	4434	
5°	4412	4412	4413	4421	4420	418
15°	4188	4210	4231	4263	4277	1180
25°	3792	3806	3820	3842	3851	1743
35°	3132	3133	3135	3136	3136	1951
45°	2150	2132	2074	2011	1982	1616
55°	664	679	719	748	766	632
65°	83	92	104	112	124	108
75°	8	10	16	15	14	13
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4433.7	4433.7	4433.7	4433.7	4433.7
2.5°	4441.0	4443.8	4434.6	4436.4	4439.2
5°	4411.5	4412.5	4413.4	4420.8	4419.8
7.5°	4370.0	4376.5	4387.6	4401.4	4405.1
10°	4313.8	4330.4	4347.0	4363.6	4369.1
12.5°	4258.5	4268.6	4298.1	4314.7	4328.5
15°	4187.5	4210.5	4230.8	4263.1	4276.9
17.5°	4097.1	4113.7	4133.1	4165.3	4184.7
20°	4024.2	4028.9	4056.5	4085.1	4091.6
22.5°	3916.3	3926.5	3955.1	3974.4	3991.0
25°	3791.9	3805.7	3819.5	3841.7	3850.9
27.5°	3655.4	3663.7	3683.0	3698.7	3707.0
30°	3490.3	3508.8	3517.1	3524.4	3535.5
32.5°	3329.9	3335.4	3342.8	3347.4	3352.9
35°	3132.5	3133.4	3135.3	3136.2	3136.2
37.5°	2930.6	2937.0	2935.2	2929.7	2932.4
40°	2691.7	2702.8	2696.4	2679.8	2668.7
42.5°	2451.1	2445.5	2423.4	2373.6	2350.5
45°	2149.5	2132.0	2073.9	2011.2	1981.7
47.5°	1788.0	1749.3	1700.4	1651.6	1632.2
50°	1370.3	1364.8	1342.6	1323.3	1325.1
52.5°	982.1	995.9	1000.5	1019.0	1028.2
55°	663.9	678.7	719.3	747.9	766.3
57.5°	403.9	432.5	475.8	522.9	546.8
60°	255.4	272.0	311.7	342.1	353.2
62.5°	159.5	160.5	179.8	203.8	213.9
65°	83.0	92.2	104.2	111.6	124.5
67.5°	51.6	51.6	50.7	61.8	69.2
70°	34.1	29.5	30.4	36.9	39.7
72.5°	12.0	20.3	18.4	18.4	12.9
75°	8.3	10.1	15.7	14.8	13.8
77.5°	11.1	10.1	7.4	6.5	12.9
80°	4.6	3.7	0.9	5.5	5.5
82.5°	4.6	1.8	5.5	7.4	4.6
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)