

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: P247610

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5099.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

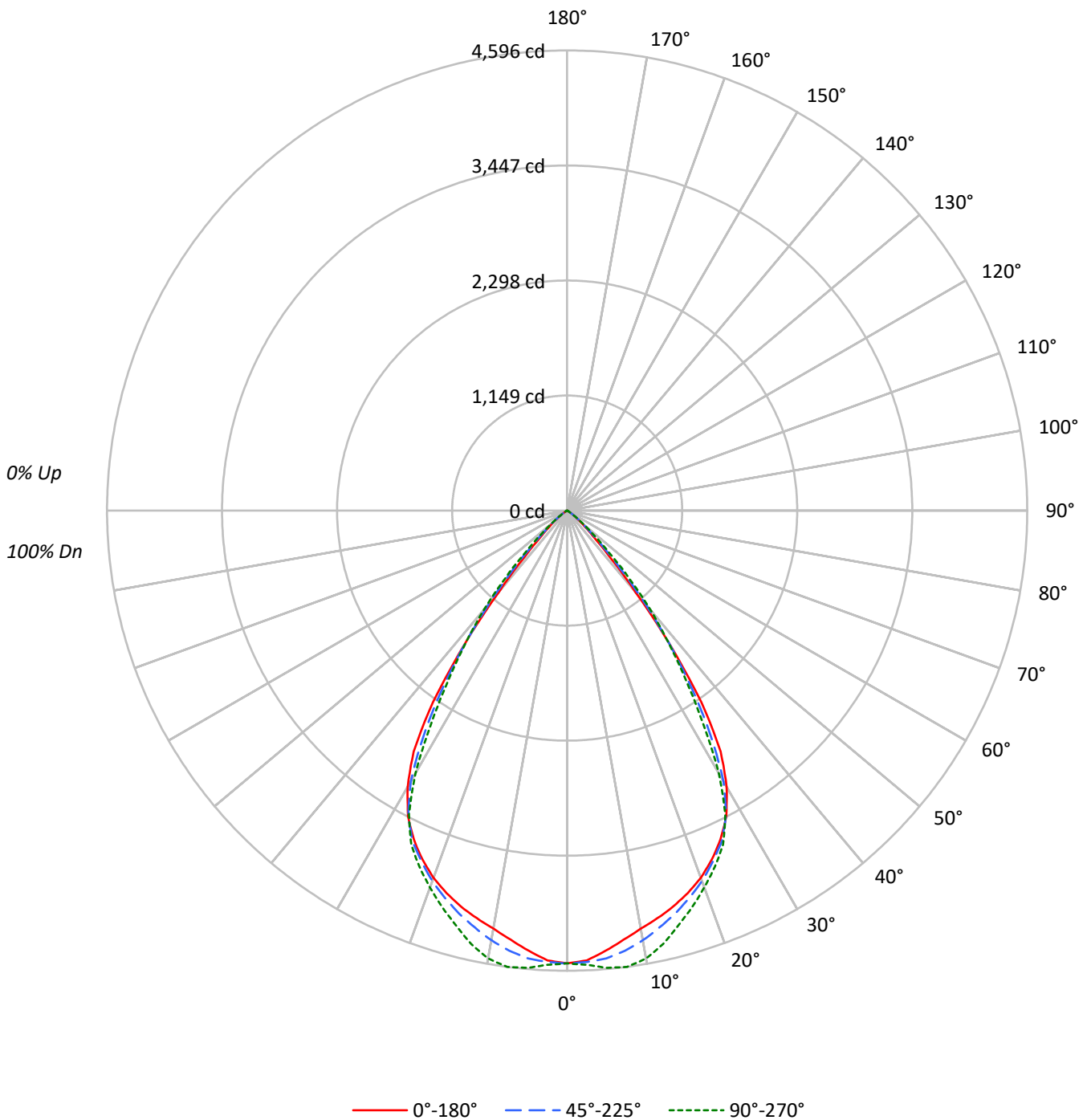
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	139463	139463	139463
5°	136600	138996	141909
10°	132750	136448	142250
15°	130726	133050	136967
20°	128052	129230	131471
25°	123324	124202	125301
30°	113464	111267	107984
35°	87922	81918	77822
40°	42722	48474	51928
45°	16528	21273	25773
50°	7743	8846	10132
55°	3220	3468	3570
60°	1079	1024	968
65°	131	204	204
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	8.3
10°-20°	1176.5	23.1
20°-30°	1657.8	32.5
30°-40°	1341.2	26.3
40°-50°	425.8	8.3
50°-60°	68.1	1.3
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3259.4	63.9
0°-40°	4600.6	90.2
0°-60°	5094.4	99.9
0°-90°	5099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4523	4523	4523	4523	4523	
5°	4413	4433	4490	4556	4584	416
15°	4095	4111	4168	4247	4290	1153
25°	3625	3631	3650	3671	3683	1655
35°	2336	2272	2176	2098	2067	1385
45°	379	409	488	557	591	353
55°	60	61	64	67	66	62
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4522.7	4522.7	4522.7	4522.7	4522.7
2.5°	4496.9	4501.5	4512.6	4533.8	4540.2
5°	4413.0	4433.3	4490.4	4555.9	4584.5
7.5°	4322.6	4349.4	4433.3	4543.9	4595.6
10°	4239.6	4268.2	4357.7	4475.7	4543.0
12.5°	4169.6	4191.7	4264.5	4370.6	4433.3
15°	4094.9	4110.6	4167.7	4247.0	4290.4
17.5°	4005.4	4019.3	4057.1	4118.9	4152.0
20°	3902.2	3905.9	3938.1	3977.8	4006.4
22.5°	3774.0	3777.7	3796.1	3833.9	3853.3
25°	3624.6	3631.1	3650.4	3670.7	3682.7
27.5°	3441.1	3443.9	3434.7	3418.1	3421.8
30°	3186.6	3176.5	3124.9	3053.9	3032.7
32.5°	2852.9	2785.5	2674.0	2574.4	2533.8
35°	2335.6	2272.0	2176.1	2097.7	2067.3
37.5°	1678.2	1682.8	1676.3	1658.8	1662.5
40°	1061.3	1103.7	1204.2	1269.7	1290.0
42.5°	637.1	683.2	793.9	882.4	911.0
45°	379.0	409.4	487.8	556.9	591.0
47.5°	243.4	258.2	296.9	337.5	356.8
50°	161.4	168.7	184.4	202.9	211.2
52.5°	103.3	106.0	113.4	119.9	126.3
55°	59.9	60.9	64.5	67.3	66.4
57.5°	31.4	31.4	31.4	31.4	31.4
60°	17.5	16.6	16.6	16.6	15.7
62.5°	8.3	8.3	8.3	7.4	7.4
65°	1.8	2.8	2.8	2.8	2.8
67.5°	0.0	0.0	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)