

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: P247578

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247578
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 EC8B80830 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

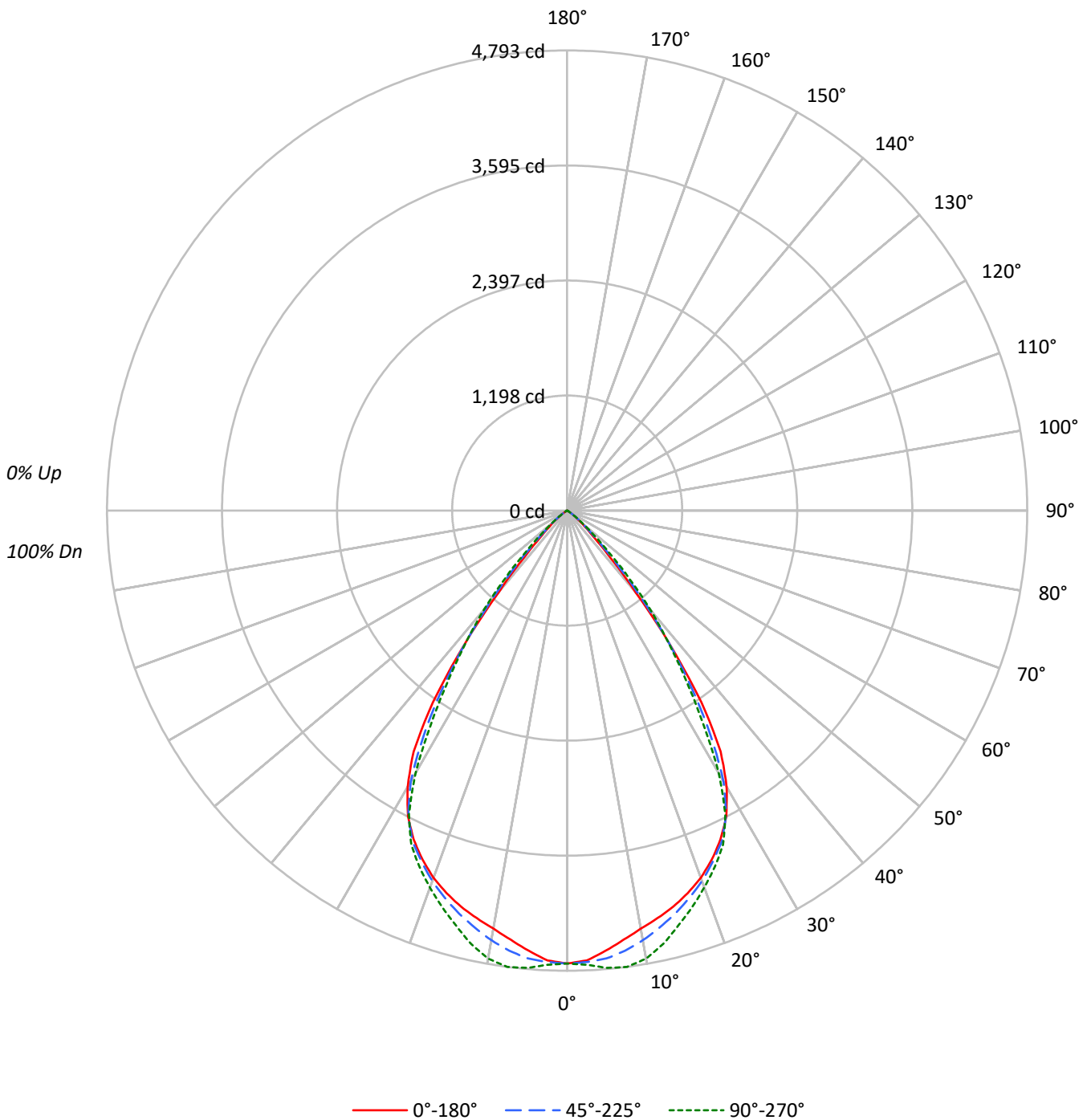
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	145455	145455	145455
5°	142466	144967	148004
10°	138452	142307	148359
15°	136338	138764	142848
20°	133552	134782	137116
25°	128621	129537	130683
30°	118339	116046	112620
35°	91697	85433	81165
40°	44557	50555	54158
45°	17234	22184	26881
50°	8074	9225	10564
55°	3360	3618	3720
60°	1129	1067	1005
65°	139	212	212
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°	443.4	8.3
10°-20°	1227.0	23.1
20°-30°	1728.9	32.5
30°-40°	1398.8	26.3
40°-50°	444.1	8.4
50°-60°	71.0	1.3
60°-70°	4.8	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°	3399.3	63.9
0°-40°	4798.1	90.2
0°-60°	5313.2	99.9
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4717	4717	4717	4717	4717	
5°	4602	4624	4683	4752	4781	434
15°	4271	4287	4347	4429	4475	1203
25°	3780	3787	3807	3828	3841	1726
35°	2436	2370	2270	2188	2156	1444
45°	395	427	509	581	616	368
55°	62	64	67	70	69	65
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°	4717.0	4717.0	4717.0	4717.0	4717.0
2.5°	4690.0	4694.8	4706.4	4728.5	4735.2
5°	4602.5	4623.7	4683.3	4751.6	4781.4
7.5°	4508.3	4536.2	4623.7	4739.1	4792.9
10°	4421.7	4451.5	4544.8	4667.9	4738.1
12.5°	4348.6	4371.7	4447.7	4558.3	4623.7
15°	4270.7	4287.1	4346.7	4429.4	4474.6
17.5°	4177.5	4191.9	4231.3	4295.8	4330.4
20°	4069.8	4073.6	4107.3	4148.6	4178.4
22.5°	3936.1	3939.9	3959.2	3998.6	4018.8
25°	3780.3	3787.0	3807.2	3828.4	3840.9
27.5°	3588.9	3591.8	3582.2	3564.9	3568.7
30°	3323.5	3312.9	3259.1	3185.0	3162.9
32.5°	2975.4	2905.2	2788.8	2685.0	2642.7
35°	2435.9	2369.5	2269.5	2187.8	2156.1
37.5°	1750.2	1755.0	1748.3	1730.0	1733.9
40°	1106.9	1151.1	1255.9	1324.2	1345.4
42.5°	664.5	712.6	828.0	920.3	950.1
45°	395.2	427.0	508.7	580.8	616.4
47.5°	253.9	269.3	309.7	352.0	372.2
50°	168.3	176.0	192.3	211.6	220.2
52.5°	107.7	110.6	118.3	125.0	131.7
55°	62.5	63.5	67.3	70.2	69.2
57.5°	32.7	32.7	32.7	32.7	32.7
60°	18.3	17.3	17.3	17.3	16.3
62.5°	8.7	8.7	8.7	7.7	7.7
65°	1.9	2.9	2.9	2.9	2.9
67.5°	0.0	0.0	0.0	0.0	1.0
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)