

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: P247488

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9864.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

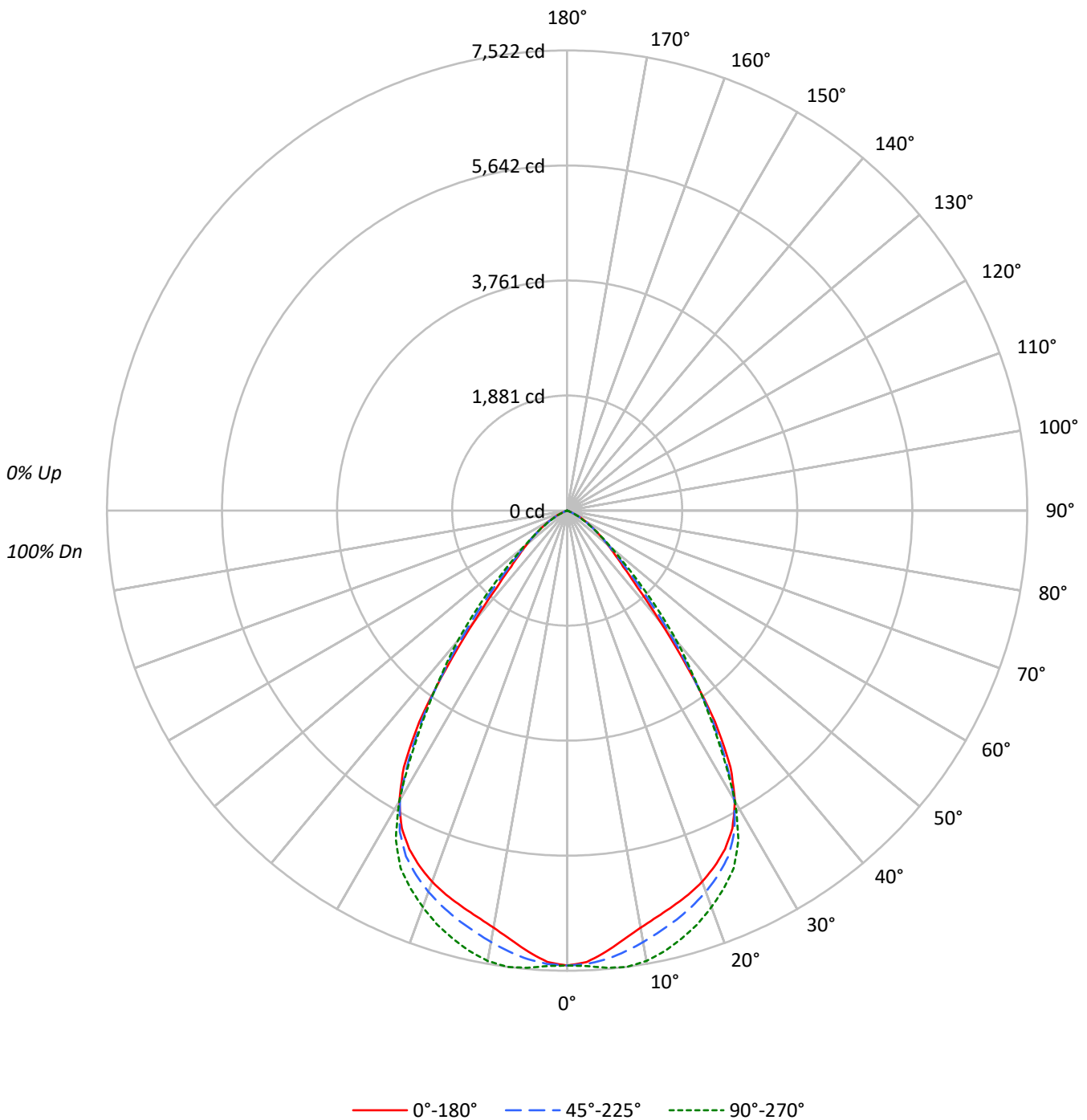
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	88	85	84
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66		74	69	66		72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	53
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	48	57	52	47		56	51	47		55	51	47	46
10	66	55	49	44	65	55	48	44	54	48	44		53	48	44		52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	229305	229305	229305
5°	224108	227887	232233
10°	216692	224257	234023
15°	213627	220928	231172
20°	211829	217628	226370
25°	207741	212161	219279
30°	195289	194548	195474
35°	158674	153344	150995
40°	94198	103823	112453
45°	56382	63464	72077
50°	41079	42139	45253
55°	29757	28709	29338
60°	20192	18668	17953
65°	10142	9383	8909
70°	2813	2461	2227
75°	1084	774	774
80°	462	462	231
85°	460	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.2	7.1
10°-20°	1958.0	19.8
20°-30°	2845.8	28.9
30°-40°	2516.6	25.5
40°-50°	1197.2	12.1
50°-60°	498.7	5.1
60°-70°	139.3	1.4
70°-80°	10.5	0.1
80°-90°	0.8	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°	5501.0	55.8
0°-40°	8017.6	81.3
0°-60°	9713.4	98.5
0°-90°	9864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7436	7436	7436	7436	7436	
5°	7240	7276	7362	7460	7502	681
15°	6692	6753	6920	7131	7241	1890
25°	6106	6133	6236	6373	6445	2790
35°	4215	4155	4074	4011	4011	2523
45°	1293	1338	1455	1590	1653	1076
55°	554	547	534	534	546	504
65°	139	136	129	123	122	151
75°	9	8	6	6	6	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7436.2	7436.2	7436.2	7436.2	7436.2
2.5°	7386.8	7393.3	7418.0	7441.4	7451.8
5°	7240.0	7276.4	7362.1	7459.6	7502.5
7.5°	7072.4	7127.0	7271.2	7442.7	7522.0
10°	6920.4	6989.2	7162.0	7373.8	7473.9
12.5°	6800.8	6864.5	7041.2	7262.1	7375.1
15°	6691.7	6752.7	6920.4	7130.9	7241.3
17.5°	6582.5	6641.0	6785.2	6981.4	7088.0
20°	6455.2	6502.0	6631.9	6804.7	6898.3
22.5°	6296.7	6339.6	6448.7	6602.0	6686.5
25°	6105.7	6133.0	6235.6	6373.3	6444.8
27.5°	5852.3	5858.8	5921.2	6010.8	6064.1
30°	5484.6	5480.7	5463.8	5459.9	5489.8
32.5°	4970.0	4912.9	4814.1	4767.3	4730.9
35°	4215.1	4155.3	4073.5	4011.1	4011.1
37.5°	3222.4	3274.4	3306.9	3345.8	3365.3
40°	2340.1	2416.8	2579.2	2748.1	2793.6
42.5°	1700.9	1772.3	1947.7	2136.1	2190.7
45°	1292.9	1338.3	1455.3	1590.4	1652.8
47.5°	1044.7	1057.7	1116.1	1196.7	1226.6
50°	856.3	860.2	878.4	919.9	943.3
52.5°	692.6	690.0	695.2	706.8	717.2
55°	553.5	547.0	534.0	534.0	545.7
57.5°	427.5	418.4	404.1	397.6	393.7
60°	327.4	318.3	302.7	292.4	291.1
62.5°	235.2	227.4	211.8	202.7	200.1
65°	139.0	136.4	128.6	123.4	122.1
67.5°	65.0	62.4	55.9	53.3	52.0
70°	31.2	29.9	27.3	26.0	24.7
72.5°	15.6	15.6	13.0	13.0	13.0
75°	9.1	7.8	6.5	6.5	6.5
77.5°	5.2	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	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)