

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: P247268

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9143.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

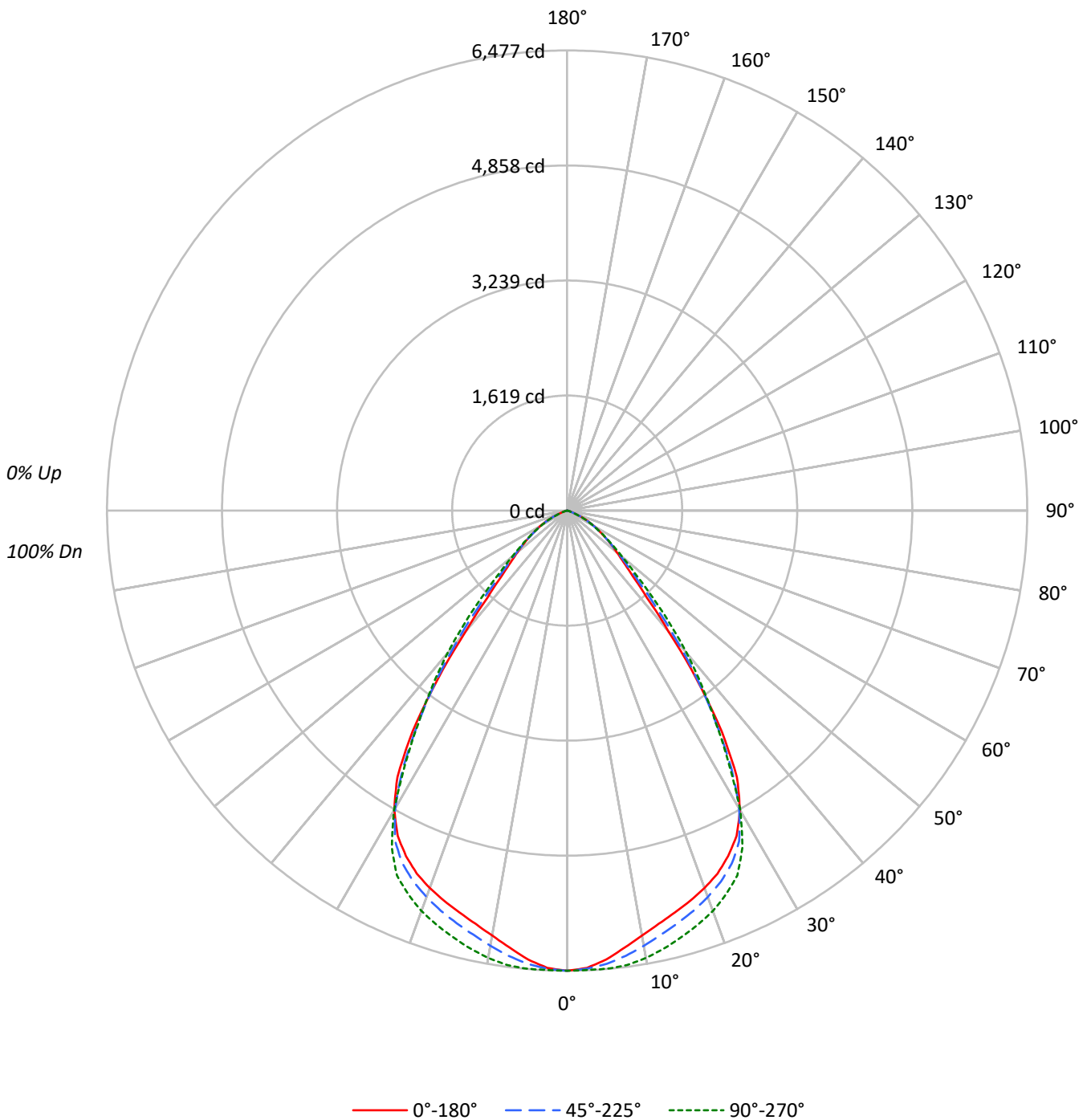
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	199718	199718	199718
5°	196295	198184	200378
10°	190167	194783	200196
15°	186951	191902	198450
20°	185479	189951	196823
25°	182543	186578	192838
30°	173198	172486	173593
35°	142766	137718	137382
40°	89448	97435	105506
45°	56692	63024	70948
50°	43650	45353	48539
55°	34558	34440	35692
60°	26932	26384	26248
65°	18117	17388	16899
70°	8295	7591	7195
75°	3956	3562	3300
80°	1971	1776	1776
85°	1168	1168	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.7	6.6
10°-20°	1700.8	18.6
20°-30°	2504.9	27.4
30°-40°	2278.3	24.9
40°-50°	1179.4	12.9
50°-60°	590.9	6.5
60°-70°	240.6	2.6
70°-80°	38.4	0.4
80°-90°	4.1	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°	4811.4	52.6
0°-40°	7089.6	77.5
0°-60°	8859.9	96.9
0°-90°	9143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6477	6477	6477	6477	6477	
5°	6342	6358	6402	6451	6473	596
15°	5856	5896	6011	6150	6216	1655
25°	5365	5402	5484	5609	5668	2456
35°	3792	3768	3658	3627	3650	2287
45°	1300	1345	1445	1557	1627	1071
55°	643	641	641	653	664	584
65°	248	247	238	235	232	250
75°	33	32	30	28	28	42
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6476.7	6476.7	6476.7	6476.7	6476.7
2.5°	6442.4	6445.7	6454.5	6464.5	6472.3
5°	6341.5	6358.1	6402.5	6451.2	6473.4
7.5°	6204.1	6240.6	6321.6	6412.4	6452.3
10°	6073.3	6115.4	6220.7	6342.6	6393.6
12.5°	5958.0	5999.0	6113.2	6249.5	6312.7
15°	5856.1	5896.0	6011.2	6149.8	6216.3
17.5°	5759.7	5796.2	5906.0	6044.5	6112.1
20°	5652.2	5684.3	5788.5	5922.6	5997.9
22.5°	5530.2	5554.6	5652.2	5779.6	5846.1
25°	5365.1	5401.7	5483.7	5608.9	5667.7
27.5°	5163.4	5186.7	5243.2	5319.7	5344.1
30°	4864.2	4863.1	4844.2	4844.2	4875.3
32.5°	4448.6	4395.4	4305.6	4251.3	4246.9
35°	3792.5	3768.1	3658.4	3627.4	3649.5
37.5°	2992.3	3008.9	3036.6	3081.0	3120.9
40°	2222.1	2264.2	2420.5	2560.1	2621.0
42.5°	1658.0	1712.3	1871.9	2024.8	2099.1
45°	1300.0	1345.4	1445.2	1557.1	1626.9
47.5°	1075.0	1098.3	1151.5	1226.9	1262.3
50°	909.9	921.0	945.4	984.1	1011.8
52.5°	772.5	768.0	781.3	806.8	816.8
55°	642.8	640.6	640.6	652.8	663.9
57.5°	533.1	529.8	523.1	528.6	532.0
60°	436.7	433.3	427.8	426.7	425.6
62.5°	351.3	345.8	334.7	332.5	332.5
65°	248.3	247.1	238.3	235.0	231.6
67.5°	154.0	149.6	141.9	135.2	134.1
70°	92.0	90.9	84.2	79.8	79.8
72.5°	55.4	53.2	49.9	47.7	46.5
75°	33.2	32.1	29.9	27.7	27.7
77.5°	19.9	18.8	17.7	16.6	16.6
80°	11.1	11.1	10.0	10.0	10.0
82.5°	6.6	6.6	5.5	5.5	5.5
85°	3.3	3.3	3.3	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)