

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: P247516

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247516
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 EC8B100950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9097.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

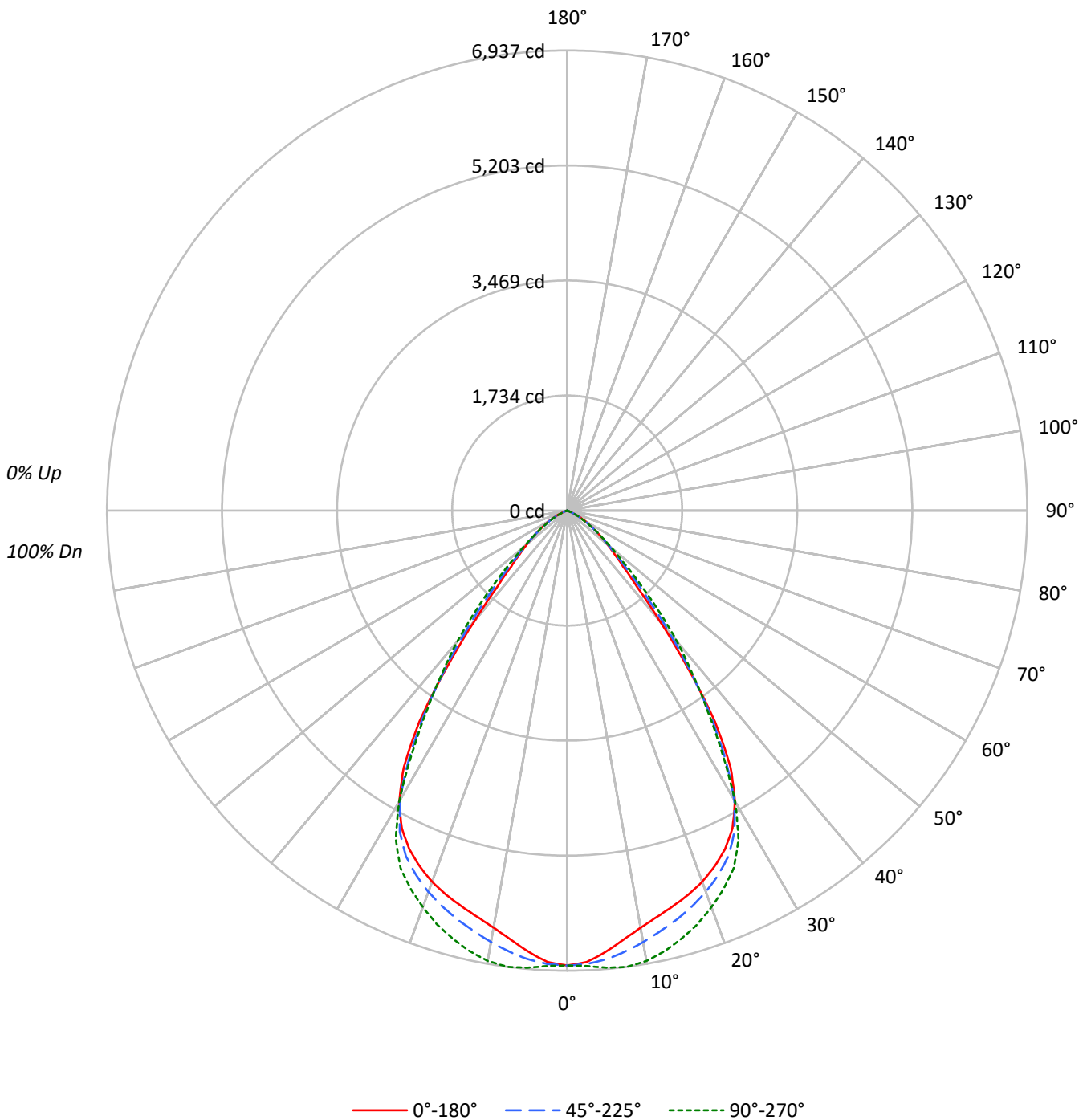
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	211475	211475	211475
5°	206681	210169	214175
10°	199843	206819	215824
15°	197013	203749	213196
20°	195359	200705	208768
25°	191586	195662	202229
30°	180102	179419	180273
35°	146334	141418	139253
40°	86876	95752	103710
45°	51995	58528	66473
50°	37884	38863	41736
55°	27445	26478	27058
60°	18625	17219	16553
65°	9354	8654	8216
70°	2597	2272	2056
75°	1001	715	715
80°	426	426	213
85°	425	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.0	7.1
10°-20°	1805.7	19.8
20°-30°	2624.5	28.9
30°-40°	2320.9	25.5
40°-50°	1104.1	12.1
50°-60°	459.9	5.1
60°-70°	128.5	1.4
70°-80°	9.7	0.1
80°-90°	0.7	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°	5073.2	55.8
0°-40°	7394.1	81.3
0°-60°	8958.1	98.5
0°-90°	9097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6858	6858	6858	6858	6858	
5°	6677	6711	6790	6880	6919	628
15°	6171	6228	6382	6576	6678	1743
25°	5631	5656	5751	5878	5944	2574
35°	3887	3832	3757	3699	3699	2327
45°	1192	1234	1342	1467	1524	993
55°	510	504	492	492	503	464
65°	128	126	119	114	113	140
75°	8	7	6	6	6	11
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°	6858.0	6858.0	6858.0	6858.0	6858.0
2.5°	6812.4	6818.4	6841.2	6862.8	6872.4
5°	6677.0	6710.6	6789.7	6879.6	6919.1
7.5°	6522.5	6572.8	6705.8	6864.0	6937.1
10°	6382.3	6445.8	6605.1	6800.5	6892.7
12.5°	6272.0	6330.7	6493.7	6697.4	6801.7
15°	6171.3	6227.7	6382.3	6576.4	6678.2
17.5°	6070.7	6124.6	6257.6	6438.6	6536.8
20°	5953.3	5996.4	6116.2	6275.6	6361.9
22.5°	5807.1	5846.6	5947.3	6088.7	6166.6
25°	5630.9	5656.1	5750.7	5877.8	5943.7
27.5°	5397.2	5403.2	5460.7	5543.4	5592.6
30°	5058.1	5054.5	5038.9	5035.3	5062.9
32.5°	4583.6	4530.8	4439.8	4396.6	4363.1
35°	3887.3	3832.2	3756.7	3699.2	3699.2
37.5°	2971.8	3019.8	3049.7	3085.7	3103.6
40°	2158.2	2228.9	2378.7	2534.4	2576.4
42.5°	1568.6	1634.5	1796.3	1970.0	2020.4
45°	1192.3	1234.3	1342.1	1466.7	1524.3
47.5°	963.4	975.4	1029.4	1103.7	1131.2
50°	789.7	793.3	810.1	848.4	870.0
52.5°	638.7	636.3	641.1	651.9	661.5
55°	510.5	504.5	492.5	492.5	503.3
57.5°	394.2	385.9	372.7	366.7	363.1
60°	302.0	293.6	279.2	269.6	268.4
62.5°	216.9	209.7	195.3	186.9	184.5
65°	128.2	125.8	118.6	113.8	112.6
67.5°	59.9	57.5	51.5	49.1	47.9
70°	28.8	27.6	25.2	24.0	22.8
72.5°	14.4	14.4	12.0	12.0	12.0
75°	8.4	7.2	6.0	6.0	6.0
77.5°	4.8	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	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)