

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: P247540

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10790.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

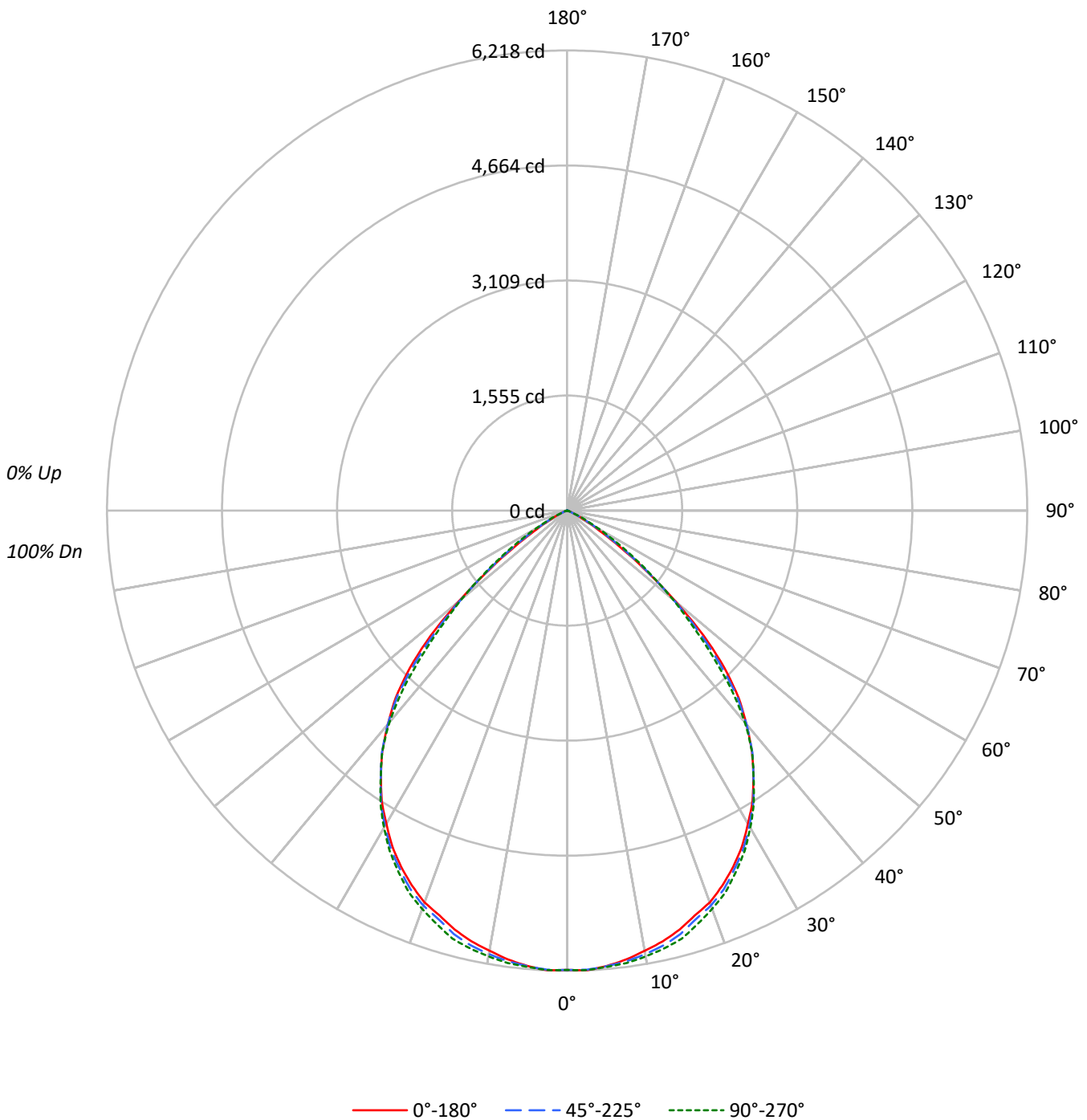
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247540

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBS0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247540

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBS0GPH

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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	191410	191410	191410
5°	191182	191262	191541
10°	189106	190562	191532
15°	187158	189093	191155
20°	184882	186365	187976
25°	180624	181941	183434
30°	173992	175327	176246
35°	165092	165239	165288
40°	151697	151959	150397
45°	131237	126619	120989
50°	92036	90174	88999
55°	49971	54138	57675
60°	22054	26914	30497
65°	8479	10646	12718
70°	4310	3841	5004
75°	1382	2609	2311
80°	1154	231	1367
85°	0	0	0



TEST NUMBER: P247540

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBS0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.2	5.4
10°-20°	1667.5	15.5
20°-30°	2459.1	22.8
30°-40°	2737.1	25.4
40°-50°	2202.8	20.4
50°-60°	936.7	8.7
60°-70°	175.6	1.6
70°-80°	21.3	0.2
80°-90°	2.7	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°	4713.8	43.7
0°-40°	7450.9	69.1
0°-60°	10590.4	98.2
0°-90°	10790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6207	6207	6207	6207	6207	
5°	6176	6178	6179	6189	6188	585
15°	5863	5895	5923	5968	5988	1652
25°	5309	5328	5347	5378	5391	2440
35°	4386	4387	4390	4391	4391	2731
45°	3009	2985	2904	2816	2774	2263
55°	930	950	1007	1047	1073	885
65°	116	129	146	156	174	151
75°	12	14	22	21	19	19
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247540

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6207.3	6207.3	6207.3	6207.3	6207.3
2.5°	6217.6	6221.5	6208.5	6211.1	6215.0
5°	6176.3	6177.6	6178.9	6189.2	6187.9
7.5°	6118.2	6127.2	6142.7	6162.1	6167.2
10°	6039.4	6062.7	6085.9	6109.1	6116.9
12.5°	5962.0	5976.2	6017.5	6040.7	6060.1
15°	5862.6	5894.8	5923.2	5968.4	5987.8
17.5°	5736.0	5759.3	5786.4	5831.6	5858.7
20°	5634.0	5640.5	5679.2	5719.2	5728.3
22.5°	5483.0	5497.2	5537.2	5564.3	5587.6
25°	5308.7	5328.1	5347.4	5378.4	5391.3
27.5°	5117.6	5129.2	5156.4	5178.3	5189.9
30°	4886.5	4912.4	4924.0	4934.3	4949.8
32.5°	4661.9	4669.6	4680.0	4686.4	4694.2
35°	4385.6	4386.9	4389.5	4390.8	4390.8
37.5°	4102.9	4111.9	4109.3	4101.6	4105.5
40°	3768.5	3784.0	3775.0	3751.7	3736.2
42.5°	3431.5	3423.8	3392.8	3323.1	3290.8
45°	3009.4	2984.9	2903.5	2815.7	2774.4
47.5°	2503.3	2449.1	2380.7	2312.2	2285.1
50°	1918.5	1910.7	1879.7	1852.6	1855.2
52.5°	1374.9	1394.3	1400.8	1426.6	1439.5
55°	929.5	950.2	1007.0	1047.0	1072.8
57.5°	565.5	605.5	666.2	732.0	765.6
60°	357.6	380.9	436.4	479.0	494.5
62.5°	223.3	224.6	251.8	285.3	299.5
65°	116.2	129.1	145.9	156.2	174.3
67.5°	72.3	72.3	71.0	86.5	96.8
70°	47.8	41.3	42.6	51.6	55.5
72.5°	16.8	28.4	25.8	25.8	18.1
75°	11.6	14.2	21.9	20.7	19.4
77.5°	15.5	14.2	10.3	9.0	18.1
80°	6.5	5.2	1.3	7.7	7.7
82.5°	6.5	2.6	7.7	10.3	6.5
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)