

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: P247463

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9362.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

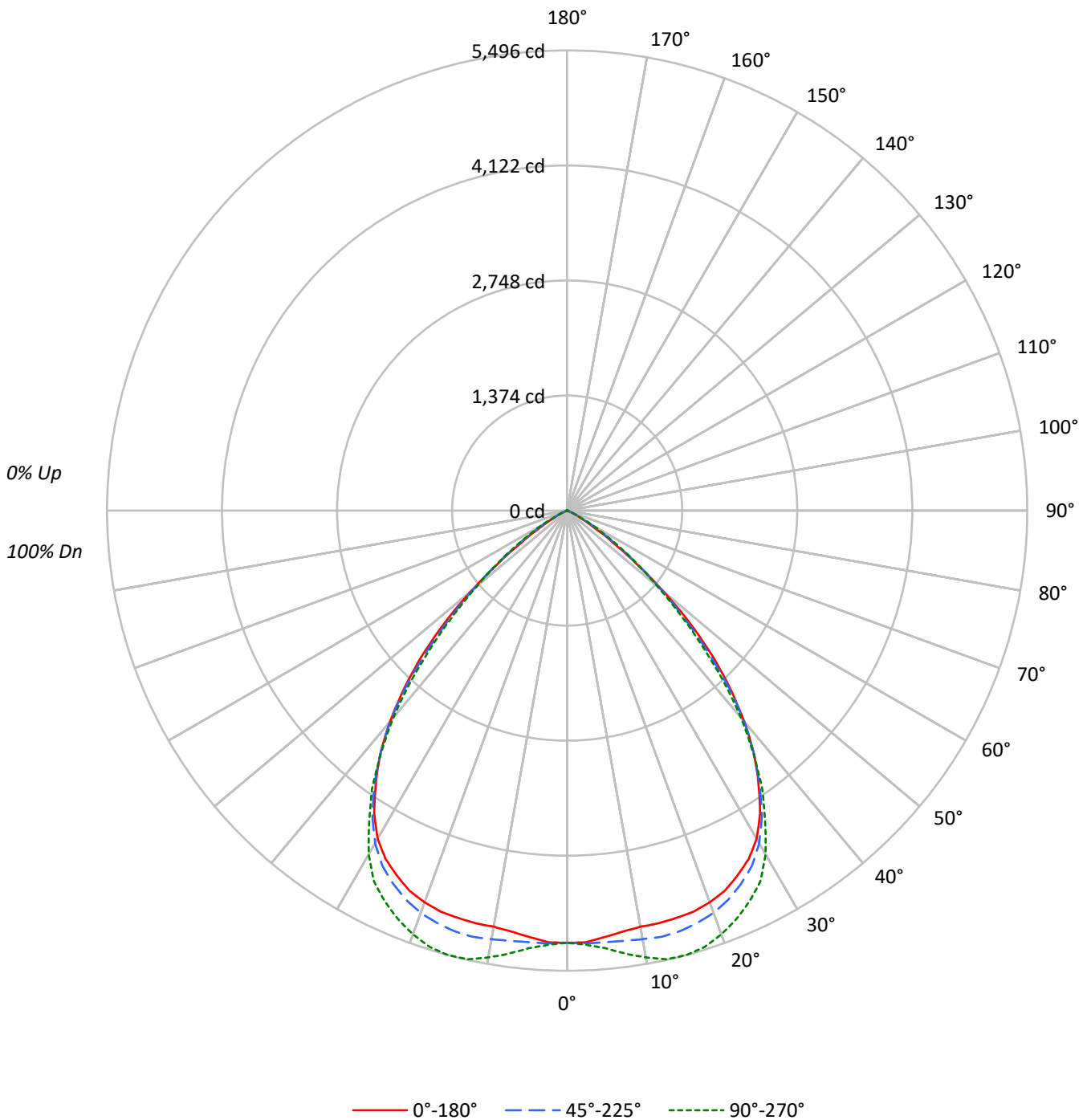
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	99	99	97	96	96	94	93	91				91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82				82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66				66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49				49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	159165	159165	159165
5°	158284	160178	162413
10°	158007	162750	169661
15°	160776	166028	175445
20°	163387	167768	176720
25°	163673	167290	175211
30°	161177	163285	168715
35°	150005	150987	152877
40°	132580	132419	130036
45°	106794	102813	98831
50°	71710	69834	67474
55°	36407	39536	41961
60°	14912	18255	21283
65°	5560	5932	6954
70°	361	361	270
75°	715	1191	1549
80°	178	0	0
85°	708	0	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.7	5.3
10°-20°	1477.1	15.8
20°-30°	2273.0	24.3
30°-40°	2489.6	26.6
40°-50°	1810.2	19.3
50°-60°	696.4	7.4
60°-70°	109.1	1.2
70°-80°	7.8	0.1
80°-90°	3.2	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
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0°-30°	4245.8	45.4
0°-40°	6735.4	71.9
0°-60°	9241.9	98.7
0°-90°	9362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5162	5162	5162	5162	5162	
5°	5114	5140	5175	5224	5247	486
15°	5036	5075	5201	5393	5496	1425
25°	4810	4840	4917	5062	5150	2212
35°	3985	3985	4011	4036	4061	2475
45°	2449	2424	2358	2297	2266	1862
55°	677	695	735	759	780	661
65°	76	79	81	92	95	93
75°	6	13	10	13	13	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5161.6	5161.6	5161.6	5161.6	5161.6
2.5°	5160.6	5168.6	5173.7	5184.7	5189.7
5°	5113.5	5139.5	5174.7	5223.8	5246.9
7.5°	5072.3	5108.4	5183.7	5290.0	5337.2
10°	5046.2	5085.4	5197.7	5342.2	5418.4
12.5°	5049.3	5092.4	5213.8	5387.3	5489.7
15°	5036.2	5075.3	5200.7	5393.4	5495.7
17.5°	5021.2	5053.3	5164.6	5353.2	5463.6
20°	4979.0	5006.1	5112.5	5283.0	5385.3
22.5°	4915.8	4940.9	5029.2	5187.7	5282.0
25°	4810.5	4839.6	4916.8	5062.3	5149.6
27.5°	4693.1	4710.2	4781.4	4913.8	4997.1
30°	4526.6	4532.6	4585.8	4688.1	4738.3
32.5°	4288.8	4287.8	4327.9	4379.1	4398.2
35°	3984.8	3984.8	4010.9	4036.0	4061.1
37.5°	3668.8	3664.8	3667.8	3673.8	3652.8
40°	3293.6	3285.6	3289.6	3253.5	3230.4
42.5°	2882.3	2889.3	2849.2	2785.0	2760.9
45°	2448.9	2423.8	2357.6	2297.4	2266.3
47.5°	1988.4	1949.3	1886.1	1823.9	1818.9
50°	1494.8	1496.8	1455.7	1420.6	1406.5
52.5°	1037.3	1048.4	1069.4	1073.5	1078.5
55°	677.2	695.2	735.4	759.4	780.5
57.5°	414.3	447.4	481.6	526.7	530.7
60°	241.8	257.8	296.0	330.1	345.1
62.5°	136.4	151.5	159.5	179.6	184.6
65°	76.2	79.3	81.3	92.3	95.3
67.5°	46.1	48.2	50.2	49.2	51.2
70°	4.0	9.0	4.0	5.0	3.0
72.5°	17.1	11.0	12.0	9.0	6.0
75°	6.0	13.0	10.0	13.0	13.0
77.5°	4.0	3.0	5.0	6.0	5.0
80°	1.0	0.0	0.0	0.0	0.0
82.5°	9.0	8.0	5.0	8.0	3.0
85°	2.0	0.0	0.0	0.0	2.0
87.5°	6.0	3.0	3.0	7.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)