

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: P247679

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90835 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9749.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

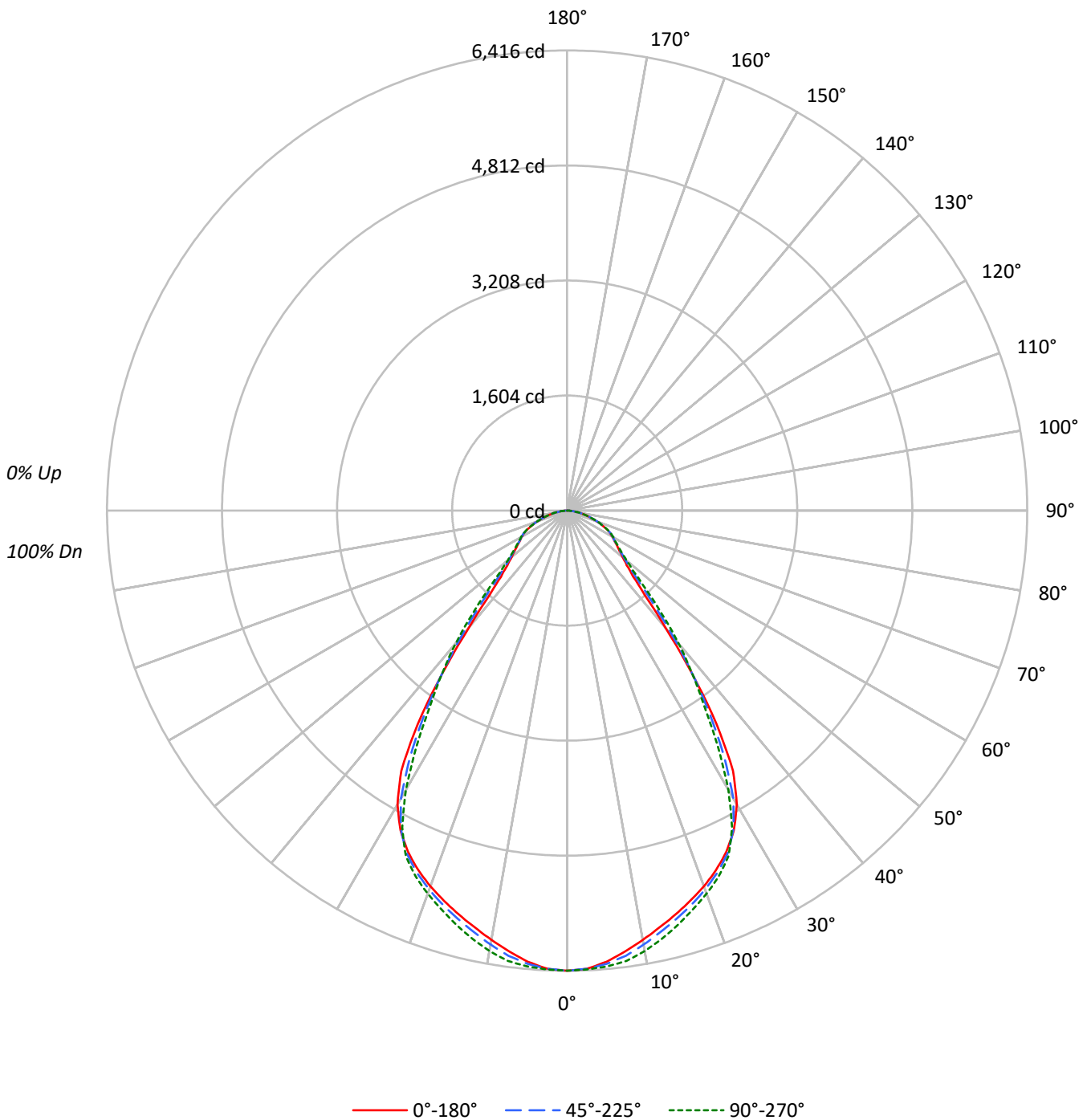
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	197830	197830	197830
5°	195413	196354	197472
10°	190302	192419	195240
15°	186149	188126	190823
20°	182955	184507	186539
25°	178657	179770	180957
30°	168438	164831	159977
35°	136739	130591	125589
40°	85507	92810	97298
45°	56975	62331	67633
50°	48577	50036	51763
55°	45412	46020	46686
60°	45015	45292	45706
65°	43888	44377	44706
70°	39805	40112	40418
75°	34754	35159	35290
80°	29602	29602	30402
85°	23917	23917	23917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.5	6.1
10°-20°	1663.3	17.1
20°-30°	2404.5	24.7
30°-40°	2151.9	22.1
40°-50°	1164.5	11.9
50°-60°	776.2	8.0
60°-70°	594.4	6.1
70°-80°	315.0	3.2
80°-90°	79.7	0.8
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°	4667.3	47.9
0°-40°	6819.2	69.9
0°-60°	8759.9	89.9
0°-90°	9749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6416	6416	6416	6416	6416	
5°	6313	6316	6343	6368	6380	595
15°	5831	5842	5893	5950	5977	1645
25°	5251	5263	5284	5308	5318	2403
35°	3632	3595	3469	3369	3336	2199
45°	1306	1345	1429	1518	1551	1075
55°	845	848	856	865	868	764
65°	602	604	608	613	613	590
75°	292	292	295	296	296	313
85°	68	68	68	69	68	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6415.5	6415.5	6415.5	6415.5	6415.5
2.5°	6394.1	6391.9	6393.0	6399.8	6403.1
5°	6313.0	6316.4	6343.4	6368.2	6379.5
7.5°	6199.3	6213.9	6260.1	6308.5	6333.3
10°	6077.6	6092.3	6145.2	6213.9	6235.3
12.5°	5952.6	5970.6	6017.9	6087.8	6113.7
15°	5831.0	5842.2	5892.9	5950.4	5977.4
17.5°	5705.9	5717.2	5763.4	5808.4	5829.8
20°	5575.3	5587.7	5622.6	5660.9	5684.5
22.5°	5425.5	5437.9	5467.2	5501.0	5522.4
25°	5250.9	5263.3	5283.6	5308.4	5318.5
27.5°	5030.2	5038.0	5018.9	4998.6	4980.6
30°	4730.5	4705.8	4629.2	4531.2	4492.9
32.5°	4304.8	4224.8	4077.3	3957.9	3914.0
35°	3632.4	3595.2	3469.1	3368.8	3336.2
37.5°	2848.5	2873.2	2864.2	2857.5	2864.2
40°	2124.2	2181.7	2305.6	2390.1	2417.1
42.5°	1608.4	1663.6	1803.2	1920.4	1960.9
45°	1306.5	1344.8	1429.3	1518.3	1550.9
47.5°	1127.4	1148.8	1191.6	1239.0	1254.7
50°	1012.6	1021.6	1043.0	1070.0	1079.0
52.5°	921.3	925.8	938.2	952.9	955.1
55°	844.7	848.1	856.0	865.0	868.4
57.5°	780.5	783.9	786.2	791.8	794.1
60°	729.9	729.9	734.4	738.9	741.1
62.5°	674.7	674.7	679.2	683.7	683.7
65°	601.5	603.7	608.2	612.7	612.7
67.5°	521.5	522.6	526.0	530.5	529.4
70°	441.5	441.5	444.9	447.1	448.3
72.5°	364.9	363.8	369.4	370.6	367.2
75°	291.7	291.7	295.1	296.2	296.2
77.5°	227.5	226.4	226.4	227.5	228.6
80°	166.7	167.8	166.7	168.9	171.2
82.5°	116.0	114.9	114.9	114.9	113.8
85°	67.6	67.6	67.6	68.7	67.6
87.5°	27.0	27.0	25.9	25.9	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)