

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: P247257

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247257
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: LSR8B120D010 EC8B120850 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12310.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

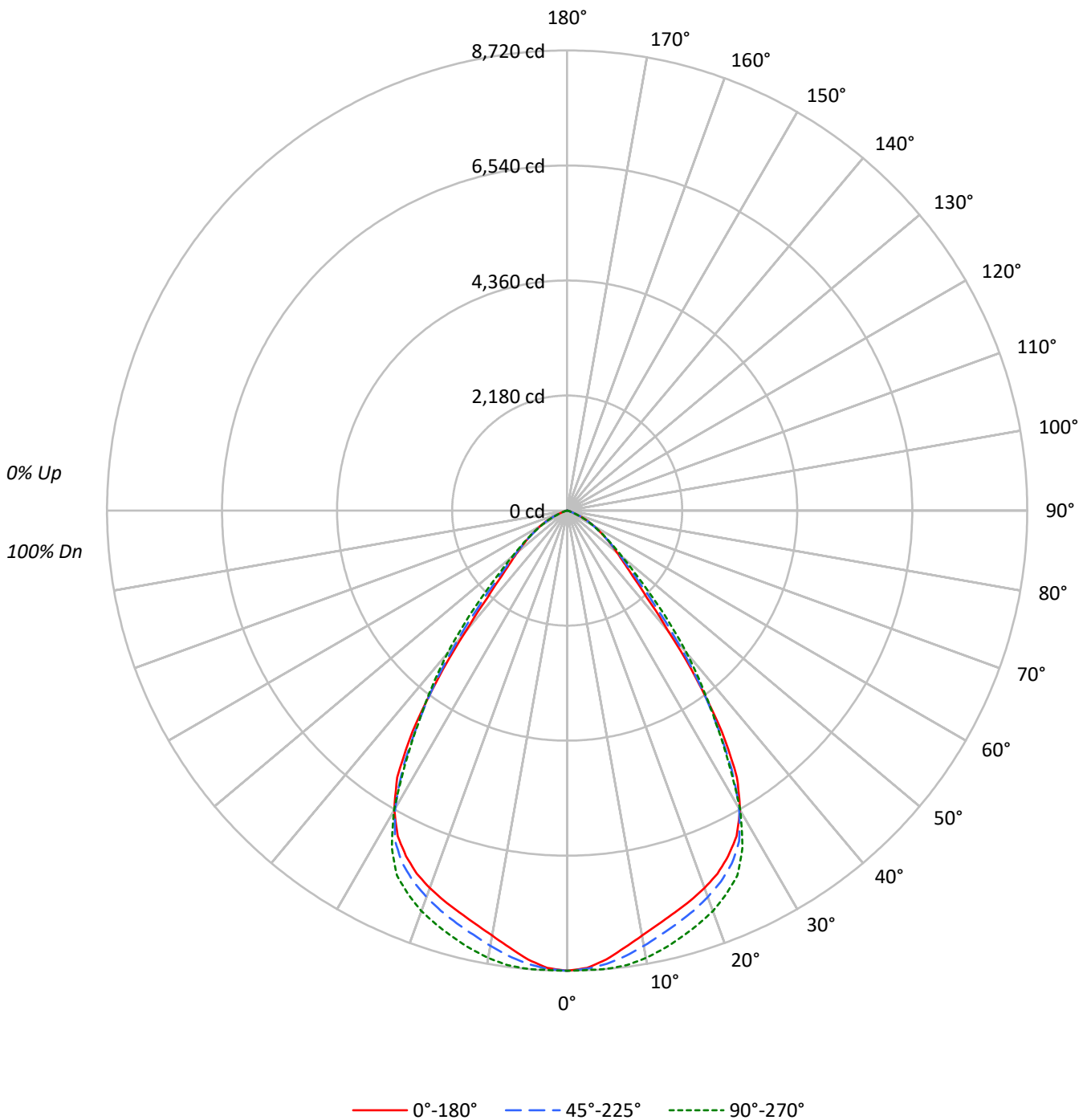
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	268896	268896	268896
5°	264289	266831	269787
10°	256038	262254	269540
15°	251706	258375	267189
20°	249725	255746	265000
25°	245773	251207	259635
30°	233192	232234	233722
35°	192215	185420	184972
40°	120432	131184	142052
45°	76329	84855	95526
50°	58771	61060	65353
55°	46525	46369	48052
60°	36257	35523	35338
65°	24385	23407	22758
70°	11162	10224	9683
75°	5338	4801	4444
80°	2646	2380	2380
85°	1592	1592	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.5	6.6
10°-20°	2289.9	18.6
20°-30°	3372.5	27.4
30°-40°	3067.4	24.9
40°-50°	1587.9	12.9
50°-60°	795.5	6.5
60°-70°	324.0	2.6
70°-80°	51.7	0.4
80°-90°	5.6	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°	6477.9	52.6
0°-40°	9545.4	77.5
0°-60°	11928.8	96.9
0°-90°	12310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8720	8720	8720	8720	8720	
5°	8538	8560	8620	8686	8716	803
15°	7884	7938	8093	8280	8370	2228
25°	7224	7273	7383	7552	7631	3307
35°	5106	5073	4926	4884	4914	3079
45°	1750	1812	1946	2096	2190	1442
55°	865	862	862	879	894	786
65°	334	333	321	316	312	337
75°	45	43	40	37	37	57
85°	4	4	4	3	3	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8720.1	8720.1	8720.1	8720.1	8720.1
2.5°	8673.9	8678.4	8690.3	8703.7	8714.2
5°	8538.1	8560.5	8620.2	8685.8	8715.7
7.5°	8353.1	8402.3	8511.2	8633.6	8687.3
10°	8177.0	8233.7	8375.5	8539.6	8608.2
12.5°	8021.8	8077.0	8230.7	8414.3	8499.3
15°	7884.5	7938.3	8093.4	8280.0	8369.5
17.5°	7754.7	7804.0	7951.7	8138.2	8229.2
20°	7610.0	7653.3	7793.5	7974.1	8075.5
22.5°	7445.8	7478.7	7610.0	7781.6	7871.1
25°	7223.5	7272.8	7383.2	7551.8	7630.9
27.5°	6951.9	6983.3	7059.4	7162.3	7195.2
30°	6549.1	6547.6	6522.2	6522.2	6564.0
32.5°	5989.5	5917.9	5797.0	5723.9	5717.9
35°	5106.1	5073.3	4925.6	4883.8	4913.7
37.5°	4028.8	4051.2	4088.5	4148.2	4201.9
40°	2991.8	3048.5	3258.9	3446.9	3528.9
42.5°	2232.3	2305.4	2520.2	2726.2	2826.1
45°	1750.3	1811.5	1945.8	2096.5	2190.5
47.5°	1447.4	1478.7	1550.3	1651.8	1699.6
50°	1225.1	1240.0	1272.8	1325.0	1362.3
52.5°	1040.0	1034.1	1052.0	1086.3	1099.7
55°	865.4	862.5	862.5	878.9	893.8
57.5°	717.7	713.2	704.3	711.8	716.2
60°	587.9	583.4	576.0	574.5	573.0
62.5°	473.0	465.6	450.6	447.6	447.6
65°	334.2	332.8	320.8	316.3	311.9
67.5°	207.4	201.4	191.0	182.0	180.6
70°	123.8	122.4	113.4	107.4	107.4
72.5°	74.6	71.6	67.1	64.2	62.7
75°	44.8	43.3	40.3	37.3	37.3
77.5°	26.9	25.4	23.9	22.4	22.4
80°	14.9	14.9	13.4	13.4	13.4
82.5°	9.0	9.0	7.5	7.5	7.5
85°	4.5	4.5	4.5	3.0	3.0
87.5°	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)