

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: P247561

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247561
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: LSR8B120D010 EC8B120940 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10966.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

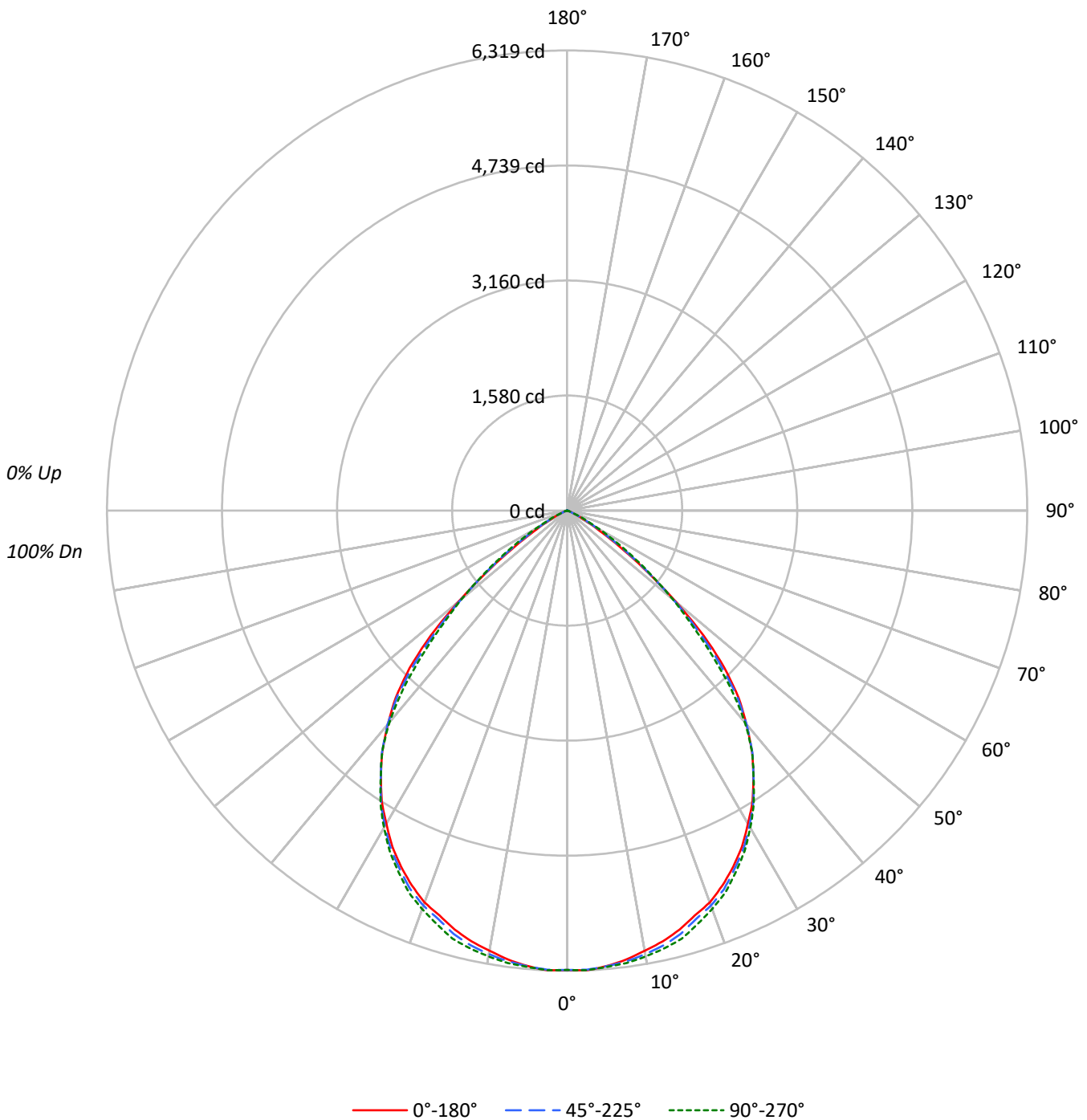
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	194531	194531	194531
5°	194299	194379	194664
10°	192190	193671	194657
15°	190210	192177	194274
20°	187897	189407	191041
25°	183570	184911	186428
30°	176830	178187	179120
35°	167788	167934	167983
40°	154173	154434	152852
45°	133379	128686	122965
50°	93537	91647	90453
55°	50788	55019	58616
60°	22412	27352	30990
65°	8617	10821	12922
70°	4373	3904	5085
75°	1406	2657	2347
80°	1172	231	1403
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.7	5.4
10°-20°	1694.7	15.5
20°-30°	2499.2	22.8
30°-40°	2781.8	25.4
40°-50°	2238.7	20.4
50°-60°	952.0	8.7
60°-70°	178.5	1.6
70°-80°	21.7	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°	4790.7	43.7
0°-40°	7572.4	69.1
0°-60°	10763.2	98.2
0°-90°	10966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6308	6308	6308	6308	6308	
5°	6277	6278	6280	6290	6289	595
15°	5958	5991	6020	6066	6086	1679
25°	5395	5415	5435	5466	5479	2479
35°	4457	4458	4461	4462	4462	2776
45°	3058	3034	2951	2862	2820	2300
55°	945	966	1023	1064	1090	900
65°	118	131	148	159	177	153
75°	12	14	22	21	20	19
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6308.5	6308.5	6308.5	6308.5	6308.5
2.5°	6319.0	6322.9	6309.8	6312.4	6316.4
5°	6277.0	6278.3	6279.6	6290.1	6288.8
7.5°	6218.0	6227.2	6242.9	6262.6	6267.8
10°	6137.9	6161.6	6185.2	6208.8	6216.7
12.5°	6059.2	6073.6	6115.6	6139.2	6158.9
15°	5958.2	5991.0	6019.8	6065.8	6085.5
17.5°	5829.6	5853.2	5880.8	5926.7	5954.2
20°	5725.9	5732.5	5771.9	5812.5	5821.7
22.5°	5572.4	5586.9	5627.5	5655.1	5678.7
25°	5395.3	5415.0	5434.7	5466.1	5479.3
27.5°	5201.1	5212.9	5240.5	5262.8	5274.6
30°	4966.2	4992.5	5004.3	5014.8	5030.5
32.5°	4737.9	4745.8	4756.3	4762.9	4770.7
35°	4457.2	4458.5	4461.1	4462.4	4462.4
37.5°	4169.8	4179.0	4176.4	4168.5	4172.4
40°	3830.0	3845.7	3836.5	3812.9	3797.2
42.5°	3487.5	3479.6	3448.2	3377.3	3344.5
45°	3058.5	3033.5	2950.9	2861.7	2819.7
47.5°	2544.1	2489.0	2419.5	2349.9	2322.4
50°	1949.8	1941.9	1910.4	1882.8	1885.5
52.5°	1397.4	1417.1	1423.6	1449.9	1463.0
55°	944.7	965.7	1023.4	1064.1	1090.3
57.5°	574.7	615.4	677.0	744.0	778.1
60°	363.4	387.1	443.5	486.8	502.5
62.5°	227.0	228.3	255.9	290.0	304.4
65°	118.1	131.2	148.3	158.8	177.1
67.5°	73.5	73.5	72.2	87.9	98.4
70°	48.5	42.0	43.3	52.5	56.4
72.5°	17.1	28.9	26.2	26.2	18.4
75°	11.8	14.4	22.3	21.0	19.7
77.5°	15.7	14.4	10.5	9.2	18.4
80°	6.6	5.2	1.3	7.9	7.9
82.5°	6.6	2.6	7.9	10.5	6.6
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)