

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: CORELITE

Report Number: P256964

Luminaire Tested: **HGL-S-BF-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-50L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8161.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

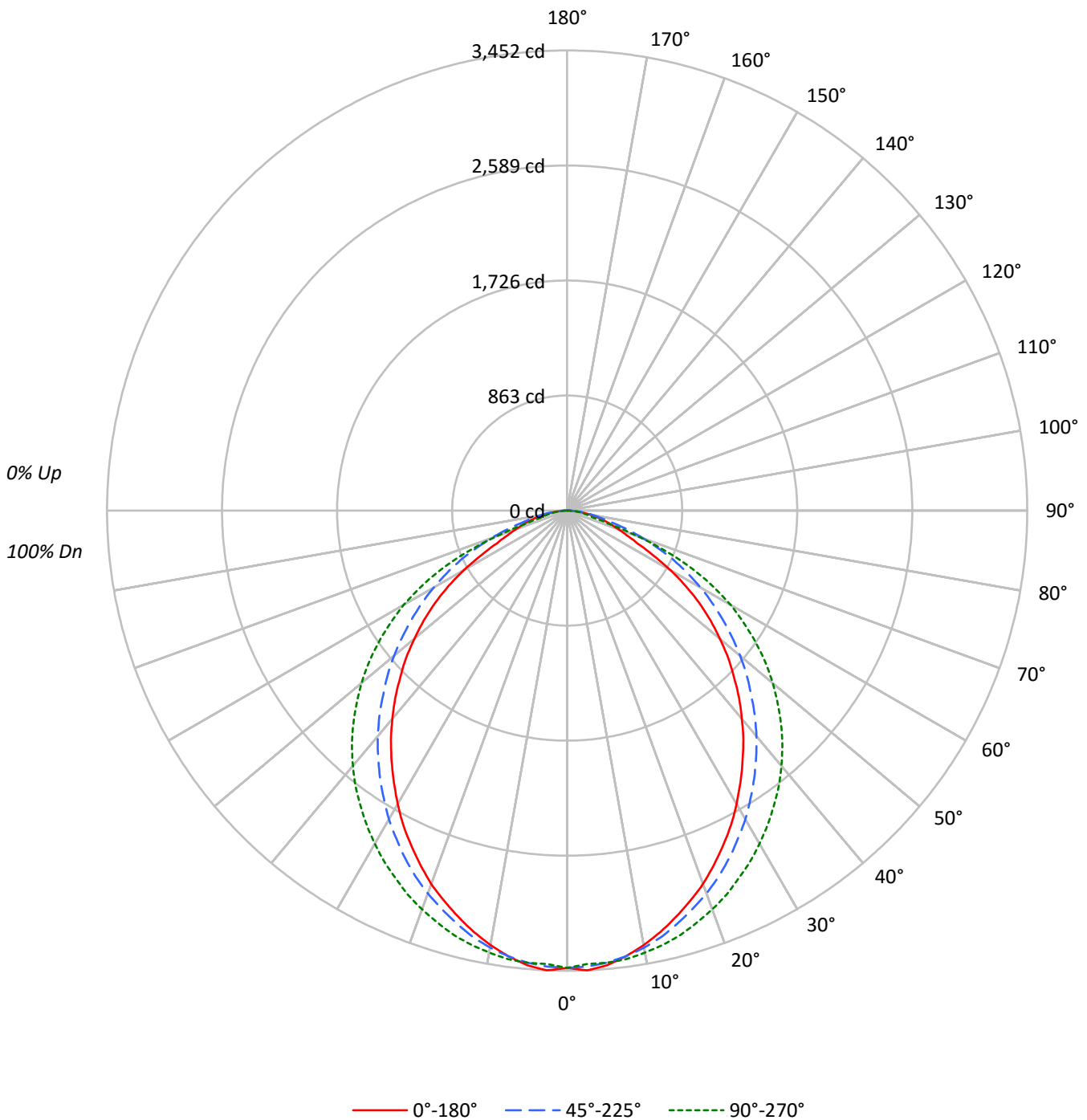
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20138	20138	20138
5°	20175	20010	19989
10°	19728	19735	19918
15°	19170	19319	19791
20°	18617	18881	19578
25°	17929	18364	19328
30°	17218	17805	19086
35°	16435	17156	18798
40°	15611	16497	18488
45°	14681	15697	18058
50°	13637	14913	17484
55°	12371	13961	16662
60°	10520	12878	15461
65°	8060	11513	13252
70°	6976	9583	8576
75°	6424	7117	4009
80°	5731	5708	3426
85°	4828	4844	2557



TEST NUMBER: P256964

CATALOG NUMBER: HGL-S-BF-50L830-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	3.9
10°-20°	904.0	11.1
20°-30°	1325.9	16.2
30°-40°	1537.7	18.8
40°-50°	1522.4	18.7
50°-60°	1284.6	15.7
60°-70°	832.5	10.2
70°-80°	336.8	4.1
80°-90°	93.4	1.1
90°-100°	2.2	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°	2552.3	31.3
0°-40°	4089.9	50.1
0°-60°	6897.0	84.5
0°-90°	8159.8	100.0
90°-120°	2.2	0.0
90°-150°	2.2	0.0
90°-180°	2.0	0.0
0°-180°	8161.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3430	3430	3430	3430	3430	
5°	3424	3389	3405	3401	3405	323
15°	3155	3139	3205	3262	3294	889
25°	2769	2769	2877	2965	3044	1275
35°	2295	2311	2447	2576	2703	1435
45°	1770	1808	1950	2115	2270	1367
55°	1211	1274	1426	1593	1729	1076
65°	582	673	885	993	1043	604
75°	284	297	351	288	206	302
85°	73	85	98	79	57	80
90°	0	13	22	16	0	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P256964

CATALOG NUMBER: HGL-S-BF-50L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3429.9	3429.9	3429.9	3429.9	3429.9
2.5°	3452.0	3414.1	3423.6	3417.2	3404.6
5°	3423.6	3388.8	3404.6	3401.4	3404.6
7.5°	3373.0	3344.5	3373.0	3382.5	3395.1
10°	3309.8	3287.6	3328.7	3350.9	3366.7
12.5°	3237.1	3218.1	3275.0	3309.8	3335.0
15°	3154.9	3139.1	3205.4	3262.3	3294.0
17.5°	3069.5	3056.9	3132.7	3205.4	3240.2
20°	2981.0	2968.4	3056.9	3129.6	3183.3
22.5°	2876.7	2870.4	2971.5	3047.4	3120.1
25°	2769.2	2769.2	2876.7	2965.2	3044.2
27.5°	2661.7	2661.7	2775.5	2873.5	2971.5
30°	2541.6	2551.1	2674.4	2781.8	2886.2
32.5°	2418.3	2434.1	2560.6	2680.7	2797.6
35°	2295.0	2310.8	2446.8	2576.4	2702.8
37.5°	2171.7	2193.9	2329.8	2465.7	2608.0
40°	2039.0	2067.4	2209.7	2351.9	2500.5
42.5°	1909.4	1941.0	2083.2	2235.0	2389.9
45°	1770.3	1808.2	1950.5	2114.8	2269.7
47.5°	1640.7	1678.6	1827.2	1988.4	2143.3
50°	1495.2	1542.7	1694.4	1861.9	2013.7
52.5°	1356.1	1409.9	1558.5	1729.2	1877.7
55°	1210.7	1274.0	1425.7	1593.2	1729.2
57.5°	1055.8	1131.7	1289.8	1451.0	1574.3
60°	897.8	989.5	1157.0	1305.6	1416.2
62.5°	727.1	834.6	1017.9	1157.0	1236.0
65°	581.7	673.3	885.1	992.6	1043.2
67.5°	483.7	537.4	739.7	818.7	818.7
70°	407.8	436.2	606.9	625.9	559.5
72.5°	344.6	360.4	474.2	426.8	319.3
75°	284.5	297.2	350.9	287.7	205.5
77.5°	227.6	237.1	265.5	218.1	161.2
80°	170.7	183.3	199.2	167.5	126.4
82.5°	120.1	129.6	148.6	123.3	91.7
85°	72.7	85.4	98.0	79.0	56.9
87.5°	31.6	41.1	53.7	41.1	25.3
90°	0.0	12.6	22.1	15.8	0.0
92.5°	0.0	0.0	3.2	3.2	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256964

CATALOG NUMBER: HGL-S-BF-50L830-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)