

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: P256987

Luminaire Tested: **HGL-S-BF-30L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256987
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-30L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7745.8 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

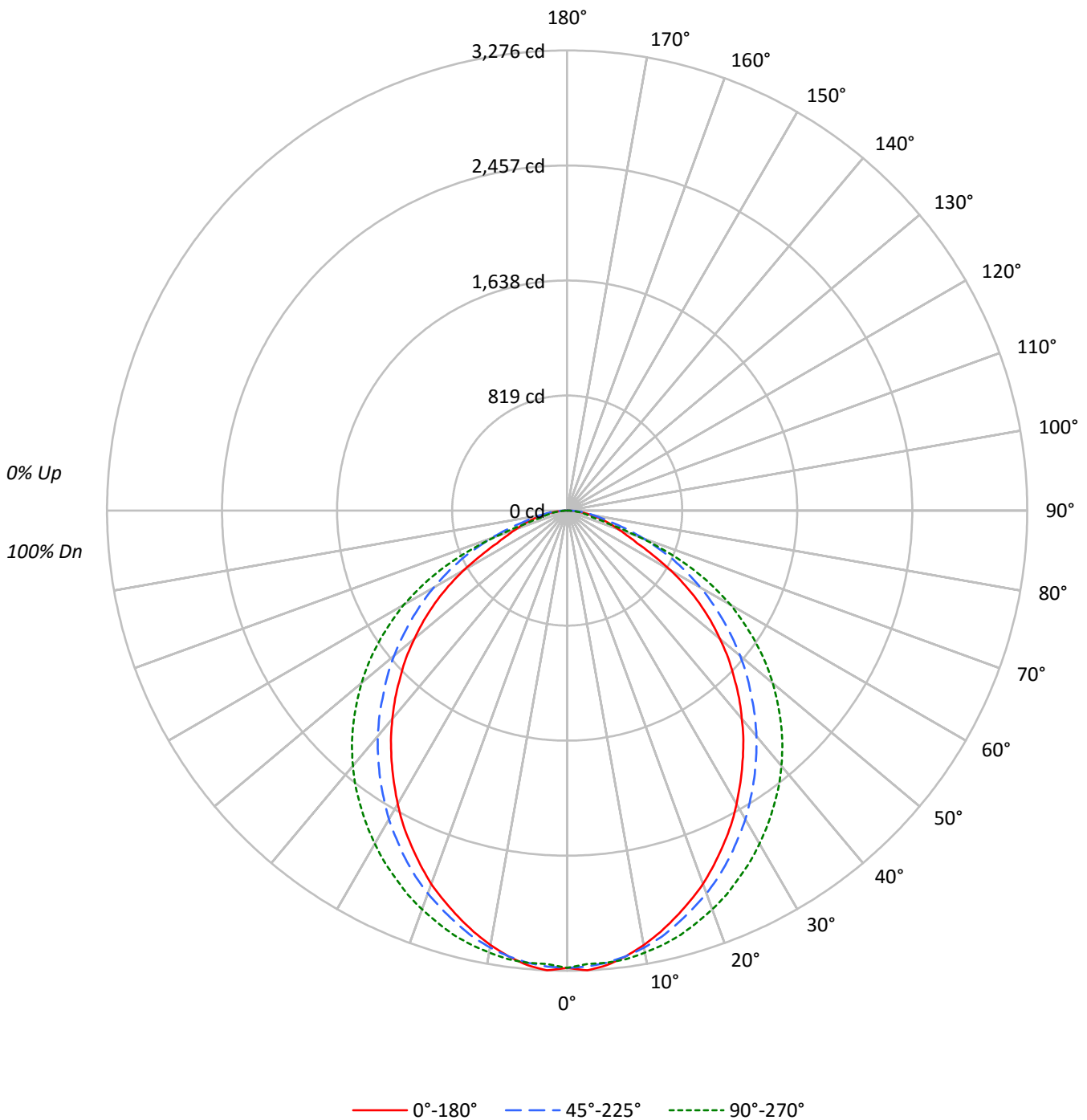
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12741	12741	12741
5°	12765	12660	12647
10°	12482	12486	12602
15°	12130	12224	12521
20°	11780	11947	12387
25°	11345	11620	12228
30°	10896	11266	12075
35°	10401	10856	11893
40°	9880	10439	11697
45°	9292	9934	11425
50°	8632	9438	11061
55°	7832	8836	10541
60°	6660	8152	9782
65°	5103	7288	8384
70°	4419	6068	5426
75°	4071	4507	2536
80°	3634	3615	2168
85°	3070	3072	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	3.9
10°-20°	857.9	11.1
20°-30°	1258.3	16.2
30°-40°	1459.3	18.8
40°-50°	1444.8	18.7
50°-60°	1219.1	15.7
60°-70°	790.1	10.2
70°-80°	319.6	4.1
80°-90°	88.7	1.1
90°-100°	2.1	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°	2422.1	31.3
0°-40°	3881.4	50.1
0°-60°	6545.3	84.5
0°-90°	7743.7	100.0
90°-120°	2.1	0.0
90°-150°	2.1	0.0
90°-180°	2.0	0.0
0°-180°	7745.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3255	3255	3255	3255	3255	
5°	3249	3216	3231	3228	3231	307
15°	2994	2979	3042	3096	3126	843
25°	2628	2628	2730	2814	2889	1210
35°	2178	2193	2322	2445	2565	1362
45°	1680	1716	1851	2007	2154	1297
55°	1149	1209	1353	1512	1641	1021
65°	552	639	840	942	990	573
75°	270	282	333	273	195	287
85°	69	81	93	75	54	76
90°	0	12	21	15	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3255	3255	3255	3255	3255
2.5°	3276	3240	3249	3243	3231
5°	3249	3216	3231	3228	3231
7.5°	3201	3174	3201	3210	3222
10°	3141	3120	3159	3180	3195
12.5°	3072	3054	3108	3141	3165
15°	2994	2979	3042	3096	3126
17.5°	2913	2901	2973	3042	3075
20°	2829	2817	2901	2970	3021
22.5°	2730	2724	2820	2892	2961
25°	2628	2628	2730	2814	2889
27.5°	2526	2526	2634	2727	2820
30°	2412	2421	2538	2640	2739
32.5°	2295	2310	2430	2544	2655
35°	2178	2193	2322	2445	2565
37.5°	2061	2082	2211	2340	2475
40°	1935	1962	2097	2232	2373
42.5°	1812	1842	1977	2121	2268
45°	1680	1716	1851	2007	2154
47.5°	1557	1593	1734	1887	2034
50°	1419	1464	1608	1767	1911
52.5°	1287	1338	1479	1641	1782
55°	1149	1209	1353	1512	1641
57.5°	1002	1074	1224	1377	1494
60°	852	939	1098	1239	1344
62.5°	690	792	966	1098	1173
65°	552	639	840	942	990
67.5°	459	510	702	777	777
70°	387	414	576	594	531
72.5°	327	342	450	405	303
75°	270	282	333	273	195
77.5°	216	225	252	207	153
80°	162	174	189	159	120
82.5°	114	123	141	117	87
85°	69	81	93	75	54
87.5°	30	39	51	39	24
90°	0	12	21	15	0
92.5°	0	0	3	3	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)