

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: NEO-RAY

Report Number: G3-1802-639-10

Luminaire Tested: **S122DR-S675D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1802-639-10
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S675D835-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2645.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

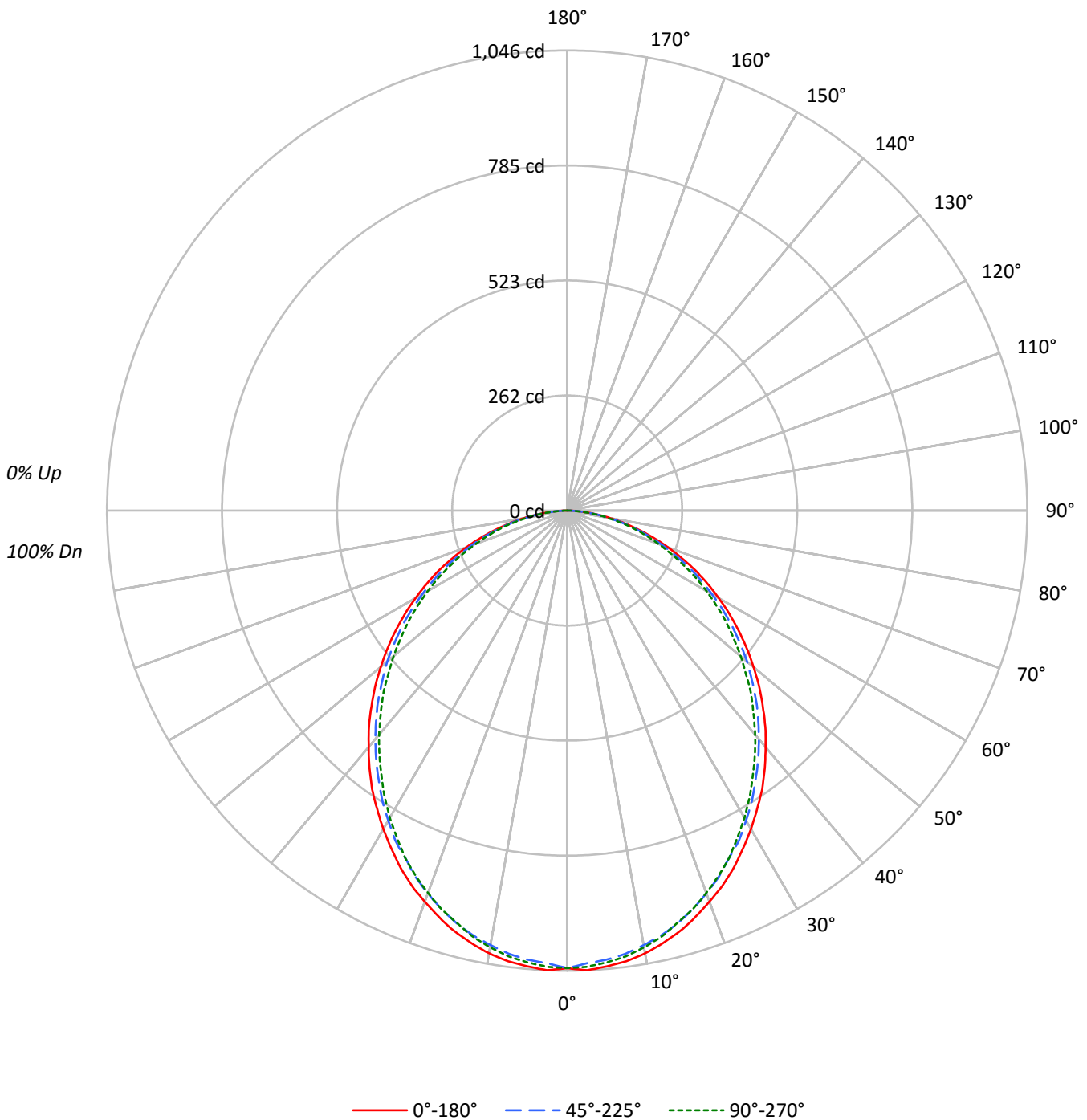
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: G3-1802-639-10

CATALOG NUMBER: S122DR-S675D835-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: G3-1802-639-10

CATALOG NUMBER: S122DR-S675D835-X4F0-XX-UDD-F-W

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19810	19810	19810
5°	19885	19598	19713
10°	19767	19400	19496
15°	19522	19148	19128
20°	19176	18770	18750
25°	18831	18306	18306
30°	18387	17881	17727
35°	17975	17370	17114
40°	17455	16858	16535
45°	16944	16351	15947
50°	16387	15824	15261
55°	15807	15210	14645
60°	15162	14476	13943
65°	14468	13747	13116
70°	13589	12865	12252
75°	12364	11849	11554
80°	10969	10640	10092
85°	8960	8523	7649



TEST NUMBER: G3-1802-639-10

CATALOG NUMBER: S122DR-S675D835-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.7
10°-20°	275.4	10.4
20°-30°	404.7	15.3
30°-40°	470.1	17.8
40°-50°	469.5	17.7
50°-60°	409.4	15.5
60°-70°	302.6	11.4
70°-80°	171.2	6.5
80°-90°	45.2	1.7
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°	778.0	29.4
0°-40°	1248.1	47.2
0°-60°	2126.9	80.4
0°-90°	2645.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1040	1036	1025	1033	1031	99
15°	990	984	971	975	970	279
25°	896	888	871	873	871	412
35°	773	763	747	741	736	483
45°	629	622	607	596	592	485
55°	476	470	458	446	441	426
65°	321	315	305	296	291	317
75°	168	166	161	155	157	179
85°	41	40	39	36	35	48
90°	0	0	0	0	0	



TEST NUMBER: G3-1802-639-10

CATALOG NUMBER: S122DR-S675D835-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040	1040	1040	1040	1040
2.5°	1046	1041	1030	1040	1038
5°	1040	1036	1025	1033	1031
7.5°	1033	1027	1016	1024	1022
10°	1022	1015	1003	1011	1008
12.5°	1007	1001	989	994	992
15°	990	984	971	975	970
17.5°	969	963	950	955	950
20°	946	940	926	929	925
22.5°	923	914	901	901	899
25°	896	888	871	873	871
27.5°	866	859	846	843	838
30°	836	828	813	810	806
32.5°	804	798	782	776	772
35°	773	763	747	741	736
37.5°	738	729	713	706	701
40°	702	694	678	669	665
42.5°	667	659	643	633	627
45°	629	622	607	596	592
47.5°	592	585	569	558	552
50°	553	548	534	520	515
52.5°	515	508	495	484	477
55°	476	470	458	446	441
57.5°	437	432	419	407	403
60°	398	394	380	369	366
62.5°	360	353	343	333	329
65°	321	315	305	296	291
67.5°	281	276	267	260	256
70°	244	240	231	224	220
72.5°	206	202	197	190	187
75°	168	166	161	155	157
77.5°	134	130	128	125	122
80°	100	99	97	94	92
82.5°	68	68	67	63	63
85°	41	40	39	36	35
87.5°	18	16	14	11	10
90°	0	0	0	0	0

(END OF REPORT)