

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: P242276

Luminaire Tested: **S122DR-S675D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S675D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.1 lumens
Efficiency: N/A
Efficacy: 86.6 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

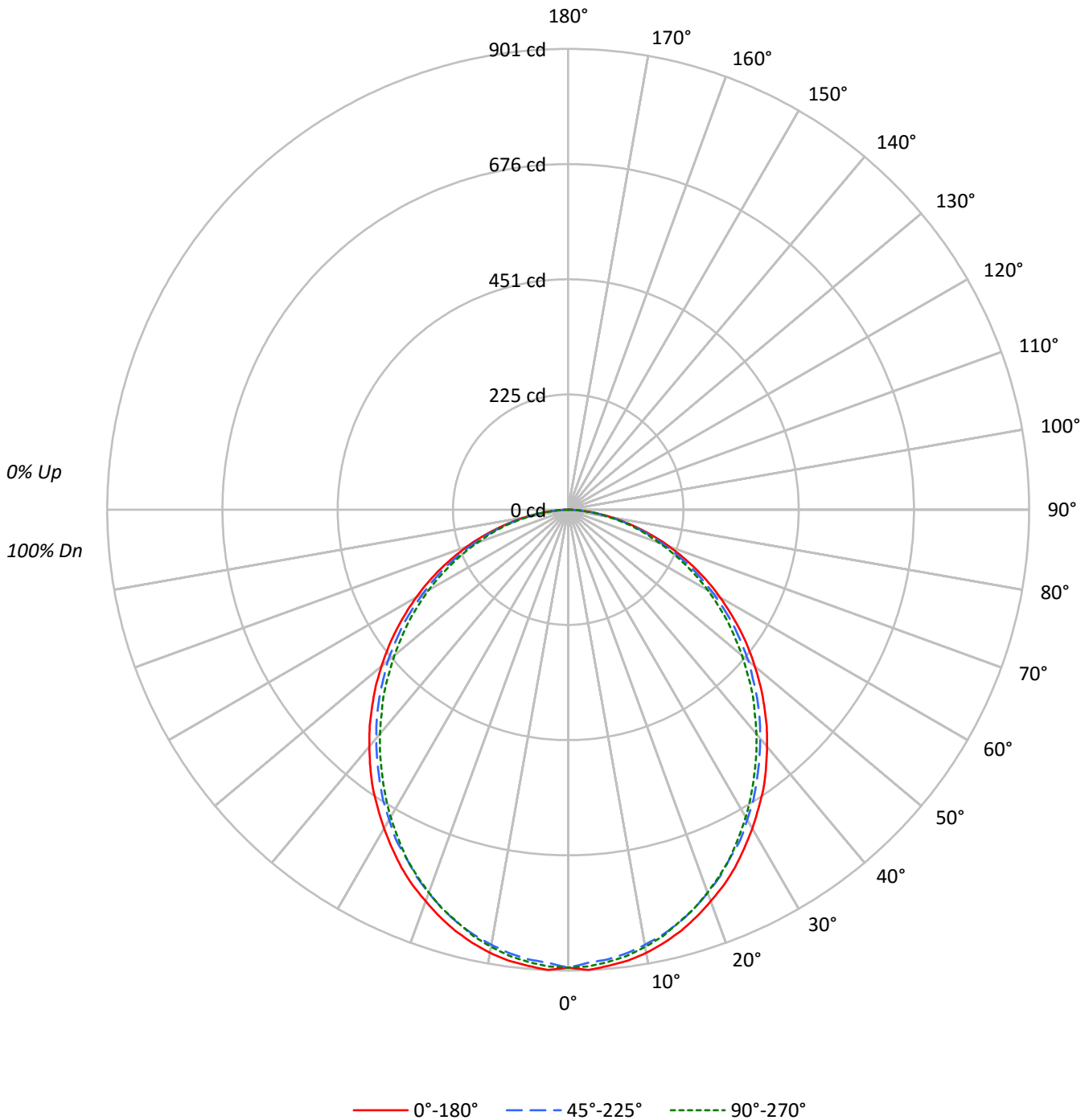
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17055	17055	17055
5°	17120	16874	16973
10°	17019	16703	16787
15°	16809	16486	16470
20°	16510	16161	16143
25°	16214	15761	15761
30°	15832	15396	15264
35°	15477	14956	14735
40°	15028	14516	14238
45°	14589	14078	13730
50°	14108	13625	13139
55°	13609	13094	12609
60°	13055	12465	12004
65°	12458	11836	11295
70°	11701	11077	10548
75°	10642	10200	9950
80°	9444	9159	8688
85°	7715	7343	6578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.7
10°-20°	237.1	10.4
20°-30°	348.5	15.3
30°-40°	404.7	17.8
40°-50°	404.2	17.7
50°-60°	352.5	15.5
60°-70°	260.5	11.4
70°-80°	147.4	6.5
80°-90°	38.9	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°	669.9	29.4
0°-40°	1074.6	47.2
0°-60°	1831.3	80.4
0°-90°	2278.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	895	892	882	889	888	85
15°	852	847	836	840	835	240
25°	772	765	750	752	750	355
35°	666	657	643	638	634	416
45°	542	536	523	513	510	418
55°	410	405	394	384	380	366
65°	276	271	263	255	251	273
75°	145	143	139	134	135	154
85°	35	34	34	31	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.4	895.4	895.4	895.4	895.4
2.5°	900.6	896.3	886.8	895.4	893.7
5°	895.4	892.0	882.5	889.4	887.7
7.5°	889.4	884.2	874.8	881.7	879.9
10°	879.9	873.9	863.6	870.5	867.9
12.5°	867.0	861.9	851.5	855.8	854.1
15°	852.4	847.2	836.0	839.5	835.2
17.5°	834.3	829.1	818.0	822.3	818.0
20°	814.5	809.3	797.3	799.9	796.4
22.5°	794.7	787.0	775.8	775.8	774.0
25°	771.5	764.6	749.9	751.7	749.9
27.5°	745.6	739.6	728.4	725.8	721.5
30°	719.8	712.9	700.0	697.4	694.0
32.5°	692.2	687.1	673.3	668.1	664.7
35°	665.6	656.9	643.2	638.0	633.7
37.5°	635.4	627.7	613.9	607.9	603.6
40°	604.4	597.5	583.8	576.0	572.6
42.5°	574.3	567.4	553.6	545.0	539.8
45°	541.6	535.5	522.6	513.2	509.7
47.5°	509.7	503.7	489.9	480.4	475.3
50°	476.1	471.8	459.8	447.7	443.4
52.5°	443.4	437.4	426.2	416.7	410.7
55°	409.8	404.7	394.3	384.0	379.7
57.5°	376.3	372.0	360.8	350.4	347.0
60°	342.7	339.2	327.2	317.7	315.1
62.5°	310.0	303.9	295.3	286.7	283.3
65°	276.4	271.2	262.6	254.9	250.6
67.5°	241.9	237.6	229.9	223.9	220.4
70°	210.1	206.6	198.9	192.9	189.4
72.5°	177.4	173.9	169.6	163.6	161.0
75°	144.6	142.9	138.6	133.5	135.2
77.5°	115.4	111.9	110.2	107.6	105.0
80°	86.1	85.2	83.5	80.9	79.2
82.5°	58.5	58.5	57.7	54.2	54.2
85°	35.3	34.4	33.6	31.0	30.1
87.5°	15.5	13.8	12.1	9.5	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)