

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: P242620

Luminaire Tested: **S124DR-S795D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-S795D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 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: 2758.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

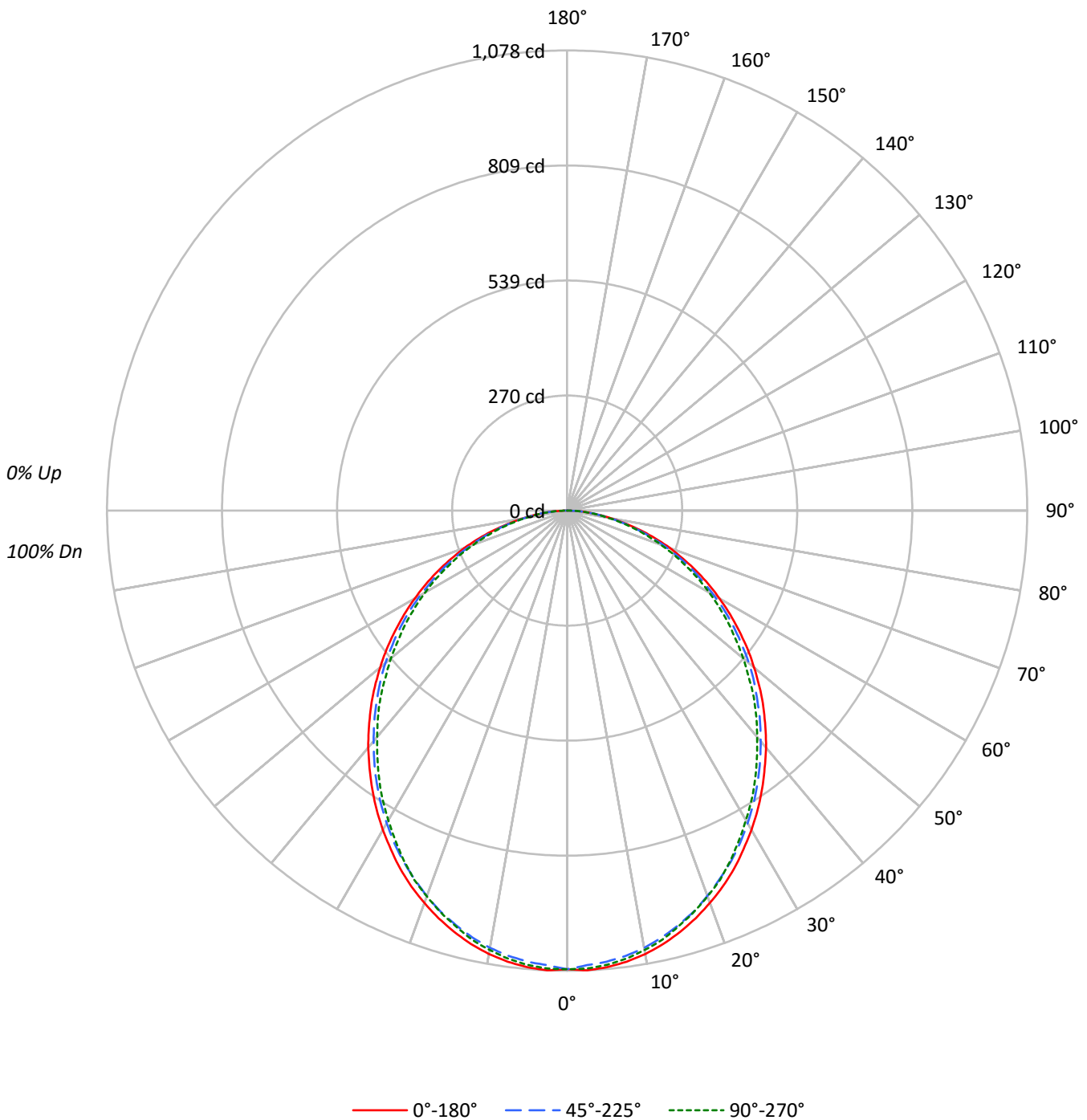
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242620

CATALOG NUMBER: S124DR-S795D935-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242620

CATALOG NUMBER: S124DR-S795D935-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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9551	9551	9551
5°	9580	9465	9534
10°	9520	9388	9435
15°	9405	9254	9278
20°	9252	9090	9097
25°	9078	8901	8875
30°	8864	8678	8599
35°	8642	8446	8334
40°	8413	8183	8032
45°	8172	7923	7771
50°	7906	7692	7454
55°	7618	7392	7152
60°	7332	7056	6843
65°	7008	6737	6466
70°	6645	6310	6063
75°	6093	5797	5650
80°	5421	5201	5068
85°	4742	4569	4477



TEST NUMBER: P242620

CATALOG NUMBER: S124DR-S795D935-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.7
10°-20°	285.3	10.3
20°-30°	419.9	15.2
30°-40°	488.2	17.7
40°-50°	488.1	17.7
50°-60°	426.9	15.5
60°-70°	316.9	11.5
70°-80°	179.8	6.5
80°-90°	51.5	1.9
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°	806.6	29.2
0°-40°	1294.7	46.9
0°-60°	2209.7	80.1
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1074	1070	1061	1070	1068	102
15°	1022	1019	1006	1011	1008	288
25°	926	920	908	908	905	426
35°	796	790	778	772	768	498
45°	650	644	630	621	618	501
55°	492	489	477	467	462	440
65°	333	329	320	312	307	330
75°	177	173	169	165	164	188
85°	46	46	45	45	44	53
90°	0	0	0	0	0	



TEST NUMBER: P242620

CATALOG NUMBER: S124DR-S795D935-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1078.0	1075.4	1065.9	1074.5	1073.7
5°	1073.7	1070.2	1060.8	1070.2	1068.5
7.5°	1065.9	1062.5	1052.1	1059.9	1059.0
10°	1054.7	1051.3	1040.1	1047.0	1045.3
12.5°	1040.1	1036.6	1024.6	1032.3	1029.8
15°	1022.0	1018.6	1005.6	1010.8	1008.2
17.5°	1001.3	997.0	985.0	988.4	986.7
20°	978.1	973.8	960.9	963.5	961.7
22.5°	953.1	947.1	934.2	939.4	935.9
25°	925.6	919.5	907.5	908.4	904.9
27.5°	894.6	888.6	877.4	875.6	871.3
30°	863.6	856.7	845.5	842.1	837.8
32.5°	830.9	824.8	812.8	808.5	804.2
35°	796.4	790.4	778.3	772.3	768.0
37.5°	760.3	755.1	742.2	736.2	730.1
40°	725.0	718.1	705.2	696.6	692.2
42.5°	687.1	683.6	669.0	658.7	656.1
45°	650.1	644.0	630.3	620.8	618.2
47.5°	611.3	607.0	594.1	583.8	576.9
50°	571.7	568.3	556.2	544.2	539.0
52.5°	533.0	528.7	515.7	505.4	498.5
55°	491.6	489.0	477.0	466.7	461.5
57.5°	452.9	450.3	438.2	427.9	422.8
60°	412.4	408.1	396.9	389.2	384.9
62.5°	372.8	369.4	357.3	350.4	346.1
65°	333.2	328.9	320.3	311.7	307.4
67.5°	292.7	289.3	280.7	272.1	271.2
70°	255.7	249.7	242.8	235.9	233.3
72.5°	216.1	210.1	204.9	199.8	197.2
75°	177.4	173.1	168.8	165.3	164.5
77.5°	139.5	137.8	133.5	132.6	130.0
80°	105.9	103.3	101.6	99.9	99.0
82.5°	73.2	72.3	72.3	71.5	70.6
85°	46.5	46.5	44.8	44.8	43.9
87.5°	22.4	21.5	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)