

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: P243578

Luminaire Tested: **S124RDR-H795D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H795D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

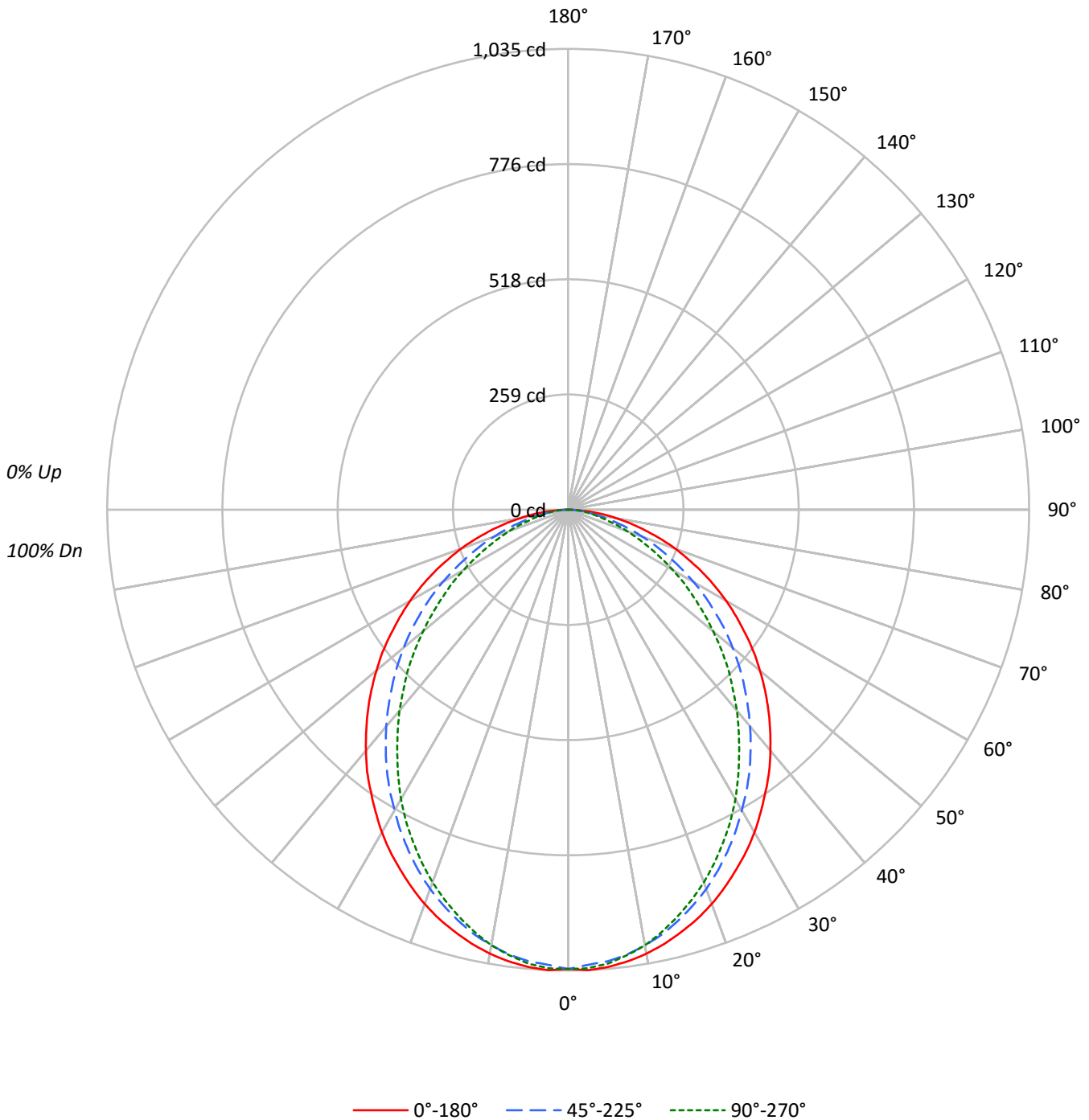
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9169	9169	9169
5°	9197	9082	9129
10°	9138	8966	8966
15°	9037	8791	8707
20°	8915	8576	8425
25°	8751	8302	8078
30°	8587	8001	7704
35°	8384	7707	7261
40°	8197	7375	6837
45°	7990	7023	6392
50°	7769	6664	5874
55°	7527	6253	5356
60°	7294	5778	4818
65°	6981	5220	4211
70°	6648	4611	3659
75°	6144	3843	2981
80°	5610	3000	2728
85°	4967	2876	2713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.0
10°-20°	270.9	11.1
20°-30°	392.8	16.2
30°-40°	447.7	18.4
40°-50°	435.6	17.9
50°-60°	366.0	15.0
60°-70°	255.0	10.5
70°-80°	131.7	5.4
80°-90°	35.6	1.5
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°	760.7	31.3
0°-40°	1208.5	49.7
0°-60°	2010.1	82.6
0°-90°	2432.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1031	1028	1018	1025	1023	98
15°	982	974	955	954	946	277
25°	892	875	846	834	824	411
35°	773	749	710	684	669	484
45°	636	605	559	523	508	490
55°	486	454	404	362	346	435
65°	332	300	248	212	200	329
75°	179	152	112	94	87	191
85°	49	31	28	27	27	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	1035.3	1032.2	1023.1	1031.5	1030.7
5°	1030.7	1027.7	1017.8	1025.4	1023.1
7.5°	1023.1	1019.3	1007.9	1013.2	1009.4
10°	1012.4	1008.6	993.4	997.2	993.4
12.5°	998.7	993.4	976.7	977.4	971.3
15°	982.0	974.4	955.3	953.8	946.2
17.5°	963.7	953.8	931.7	927.9	919.6
20°	942.4	930.2	906.6	898.2	890.6
22.5°	918.0	903.6	877.7	867.8	857.9
25°	892.2	875.4	846.5	834.3	823.6
27.5°	865.5	845.7	814.5	799.3	788.6
30°	836.6	813.8	779.5	762.0	750.6
32.5°	804.6	781.8	746.0	724.7	710.2
35°	772.6	749.0	710.2	683.6	669.1
37.5°	741.4	714.8	672.9	645.5	628.8
40°	706.4	678.3	635.6	604.4	589.2
42.5°	671.4	642.5	596.8	564.1	547.3
45°	635.6	605.2	558.7	523.0	508.5
47.5°	599.1	568.6	520.7	483.4	466.6
50°	561.8	531.3	481.9	440.8	424.8
52.5°	525.2	493.3	443.8	401.9	385.2
55°	485.7	454.5	403.5	362.3	345.6
57.5°	447.6	414.9	365.4	323.5	309.8
60°	410.3	377.6	325.0	284.7	271.0
62.5°	370.7	338.0	286.2	247.4	235.2
65°	331.9	299.9	248.2	212.4	200.2
67.5°	292.3	263.4	213.1	178.9	169.0
70°	255.8	223.0	177.4	147.7	140.8
72.5°	217.0	188.0	143.9	119.5	114.2
75°	178.9	151.5	111.9	93.6	86.8
77.5°	143.9	117.2	84.5	69.3	69.3
80°	109.6	86.0	58.6	54.8	53.3
82.5°	77.6	55.6	43.4	40.3	39.6
85°	48.7	31.2	28.2	26.6	26.6
87.5°	23.6	14.5	14.5	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)