

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: P243133

Luminaire Tested: **S122DR-H1005D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-H1005D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 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: 3166.2 lumens
Efficiency: N/A
Efficacy: 84.0 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

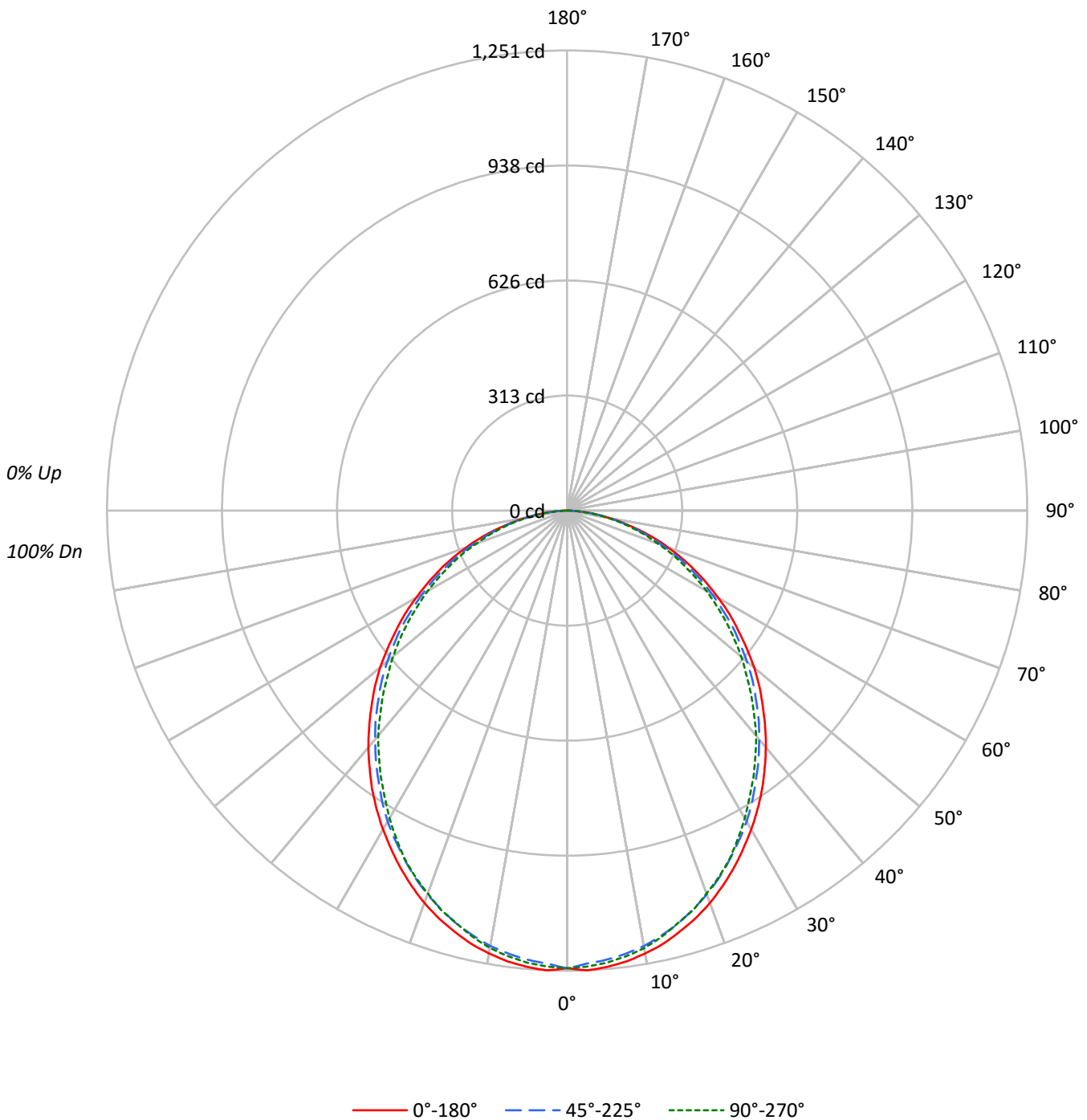
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23701	23701	23701
5°	23813	23440	23595
10°	23645	23247	23357
15°	23362	22932	22908
20°	23013	22502	22455
25°	22536	21981	21956
30°	22021	21464	21238
35°	21493	20800	20532
40°	20902	20188	19875
45°	20265	19554	19061
50°	19676	18894	18316
55°	18853	18205	17518
60°	18042	17345	16690
65°	17262	16437	15712
70°	16223	15393	14625
75°	14770	14182	13505
80°	12834	12450	11945
85°	11037	9769	9026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.7
10°-20°	329.8	10.4
20°-30°	484.9	15.3
30°-40°	563.0	17.8
40°-50°	562.2	17.8
50°-60°	489.7	15.5
60°-70°	362.1	11.4
70°-80°	204.1	6.4
80°-90°	53.2	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°	931.8	29.4
0°-40°	1494.8	47.2
0°-60°	2546.7	80.4
0°-90°	3166.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1245	1240	1226	1236	1234	118
15°	1185	1179	1163	1168	1162	334
25°	1072	1063	1046	1045	1045	494
35°	924	914	894	886	883	578
45°	752	744	726	714	708	581
55°	568	563	548	533	528	508
65°	383	377	365	353	349	379
75°	201	200	193	186	184	213
85°	50	48	45	42	41	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.3	1244.3	1244.3	1244.3	1244.3
2.5°	1251.2	1245.4	1232.8	1243.1	1240.9
5°	1245.4	1239.7	1225.9	1236.3	1234.0
7.5°	1236.3	1230.5	1215.6	1225.9	1222.5
10°	1222.5	1215.6	1201.9	1208.7	1207.6
12.5°	1206.4	1199.6	1183.5	1189.2	1187.0
15°	1184.7	1178.9	1162.9	1167.5	1161.7
17.5°	1161.7	1152.5	1137.6	1142.2	1138.8
20°	1135.3	1126.2	1110.1	1112.4	1107.8
22.5°	1104.4	1095.2	1080.3	1080.3	1078.0
25°	1072.3	1063.1	1045.9	1044.7	1044.7
27.5°	1036.7	1028.7	1011.5	1008.1	1005.8
30°	1001.2	994.3	975.9	969.1	965.6
32.5°	963.3	954.1	936.9	928.9	923.2
35°	924.3	914.0	894.5	886.5	883.0
37.5°	881.9	871.6	854.4	847.5	840.6
40°	840.6	831.4	811.9	801.6	799.3
42.5°	797.0	787.9	770.7	759.2	752.3
45°	752.3	744.3	725.9	714.5	707.6
47.5°	708.7	699.6	683.5	669.7	660.6
50°	664.0	654.8	637.6	621.6	618.1
52.5°	614.7	609.0	591.8	576.8	572.3
55°	567.7	563.1	548.2	533.3	527.5
57.5°	522.9	517.2	500.0	488.5	481.7
60°	473.6	470.2	455.3	442.7	438.1
62.5°	427.8	423.2	410.6	397.9	392.2
65°	383.0	377.3	364.7	353.2	348.6
67.5°	337.2	331.4	321.1	311.9	307.3
70°	291.3	286.7	276.4	268.4	262.6
72.5°	246.6	242.0	232.8	224.8	223.6
75°	200.7	199.5	192.7	185.8	183.5
77.5°	158.3	157.1	152.5	149.1	146.8
80°	117.0	117.0	113.5	110.1	108.9
82.5°	80.3	81.4	78.0	75.7	75.7
85°	50.5	48.2	44.7	42.4	41.3
87.5°	20.6	17.2	16.1	12.6	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)