

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011903

Luminaire Tested: S123DIP-B775D1025UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011903
REPORT IS A COMBINATION OF REPORTS P990227 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

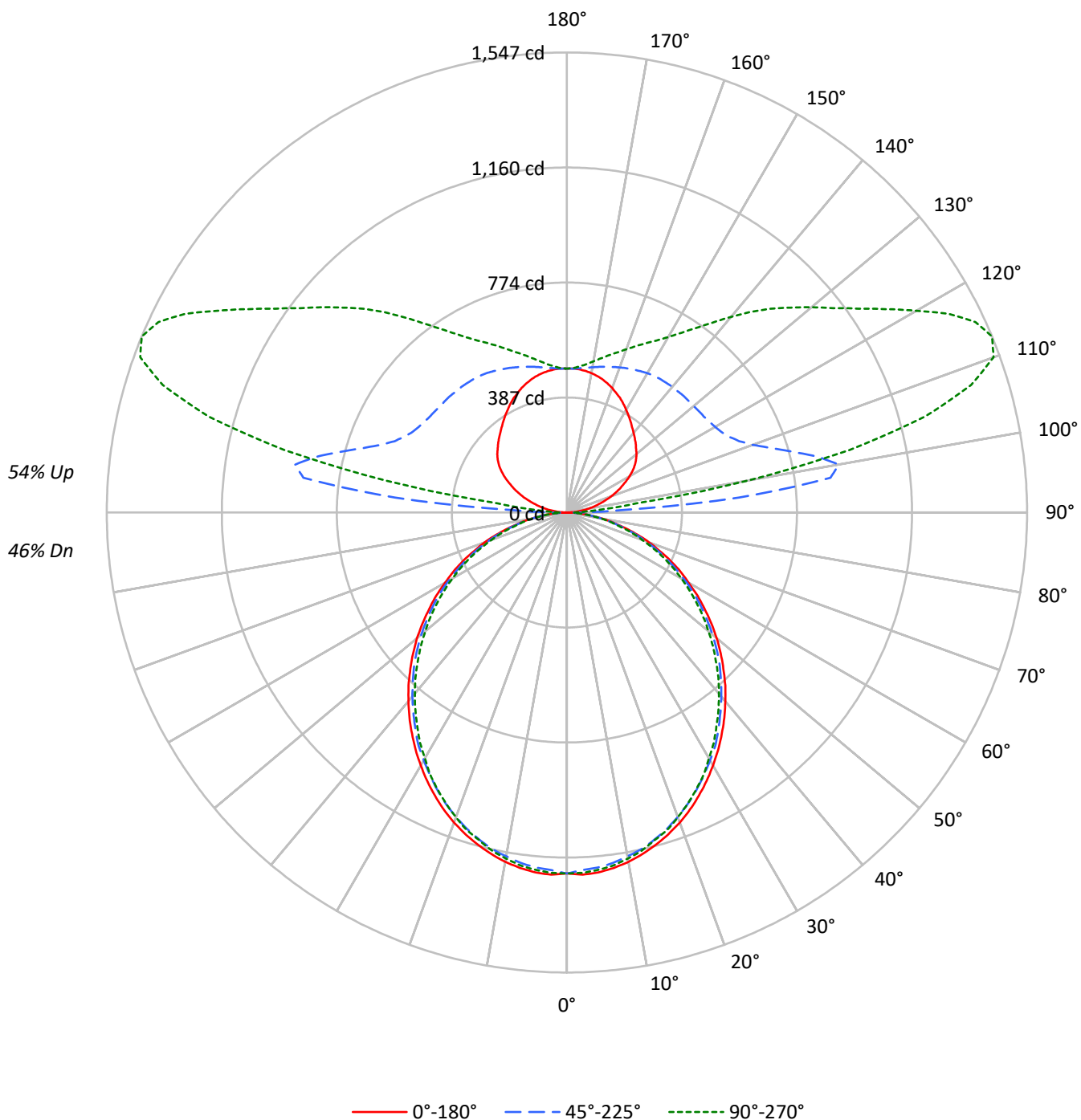
Lumens per Lamp: N/A
Luminaire Lumens: 6810.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
Input Current (Ain): 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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	46	44
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	41	39	37
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	44	39	40	36	33	32	30	27
5	67	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13065	13065	13065
5°	13097	12615	12595
10°	12981	12187	12063
15°	12801	11744	11481
20°	12593	11250	10906
25°	12326	10730	10290
30°	12033	10192	9643
35°	11726	9642	9000
40°	11405	9065	8367
45°	11051	8502	7706
50°	10692	7875	7042
55°	10230	7222	6369
60°	9756	6501	5654
65°	9309	5723	4908
70°	8667	4858	4038
75°	7741	3846	3135
80°	6688	2702	2217
85°	5216	1454	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.7
10°-20°	323.1	4.7
20°-30°	477.2	7.0
30°-40°	557.3	8.2
40°-50°	560.3	8.2
50°-60°	492.2	7.2
60°-70°	366.6	5.4
70°-80°	208.6	3.1
80°-90°	62.0	0.9
90°-100°	275.0	4.0
100°-110°	768.7	11.3
110°-120°	749.5	11.0
120°-130°	596.8	8.8
130°-140°	471.1	6.9
140°-150°	351.5	5.2
150°-160°	245.2	3.6
160°-170°	144.1	2.1
170°-180°	46.9	0.7
0°-30°	914.7	13.4
0°-40°	1472.1	21.6
0°-60°	2524.5	37.1
0°-90°	3161.7	46.4
90°-120°	1793.2	26.3
90°-150°	3212.6	47.2
90°-180°	3649.0	53.6
0°-180°	6810.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1215	1210	1198	1209	1206	115
15°	1156	1152	1139	1147	1141	326
25°	1050	1044	1030	1031	1028	484
35°	908	902	888	882	877	568
45°	744	740	726	714	709	574
55°	565	564	550	538	533	506
65°	385	380	370	361	358	380
75°	204	199	196	191	188	217
85°	54	52	52	50	50	58
90°	2	12	24	27	28	6
95°	33	108	581	169	114	35
105°	114	168	788	1377	1246	121
115°	201	250	602	1321	1516	199
125°	279	330	562	1019	1195	248
135°	327	390	554	839	969	253
145°	373	428	548	688	757	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1219.0	1214.8	1203.4	1213.8	1212.8
5°	1214.8	1209.6	1198.2	1208.6	1206.5
7.5°	1205.5	1200.2	1188.8	1198.2	1197.1
10°	1192.9	1187.7	1174.1	1183.5	1181.5
12.5°	1176.2	1172.1	1159.5	1165.8	1164.8
15°	1156.4	1152.2	1138.7	1147.0	1140.7
17.5°	1134.5	1129.3	1115.7	1122.0	1119.9
20°	1109.4	1103.2	1089.6	1093.8	1090.7
22.5°	1081.3	1075.0	1061.4	1064.6	1060.4
25°	1049.9	1043.7	1030.1	1031.2	1028.0
27.5°	1017.6	1011.3	996.7	997.8	994.6
30°	982.1	976.9	962.3	962.3	955.0
32.5°	946.6	939.3	928.9	921.6	918.4
35°	908.0	901.7	888.2	881.9	876.7
37.5°	869.4	861.0	847.5	840.2	837.0
40°	828.7	822.4	807.8	799.5	795.3
42.5°	788.0	780.7	766.1	757.7	753.5
45°	744.1	740.0	726.4	713.9	708.7
47.5°	701.4	695.1	682.6	670.0	665.9
50°	657.5	652.3	638.7	627.3	621.0
52.5°	611.6	608.5	593.9	584.5	578.2
55°	564.6	563.6	550.0	538.5	533.3
57.5°	520.8	516.6	506.2	495.8	489.5
60°	472.8	471.7	459.2	449.8	444.6
62.5°	430.0	426.9	414.3	404.9	401.8
65°	385.1	379.9	369.5	361.1	358.0
67.5°	337.1	332.9	324.6	317.3	313.1
70°	294.3	288.1	281.8	274.5	269.3
72.5°	249.4	245.3	238.0	231.7	229.6
75°	203.5	199.3	196.2	191.0	187.9
77.5°	162.8	160.7	156.6	152.4	152.4
80°	123.2	120.0	117.9	116.9	116.9
82.5°	84.5	84.5	84.5	82.5	81.4
85°	54.3	52.2	52.2	50.1	50.1
87.5°	27.1	24.0	23.0	21.9	21.9
90°	2.0	11.8	24.5	27.4	28.4
92.5°	14.7	58.8	182.2	62.2	51.9
95°	33.3	108.2	580.9	169.4	113.6
97.5°	52.9	124.0	893.4	426.2	233.2
100°	72.5	136.7	927.7	891.4	614.2
102.5°	93.1	151.4	864.1	1193.7	972.8
105°	113.6	168.0	787.6	1377.4	1246.1
107.5°	135.2	187.6	720.0	1458.2	1424.4
110°	158.7	207.7	664.2	1460.7	1526.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	228.8	627.0	1405.3	1546.9
115°	200.8	250.3	602.5	1321.1	1515.5
117.5°	221.4	270.8	585.8	1230.9	1447.0
120°	243.0	291.4	575.1	1145.7	1356.8
122.5°	261.6	311.0	568.2	1078.6	1272.6
125°	279.2	329.6	562.3	1018.8	1195.2
127.5°	292.9	347.3	559.4	969.8	1128.6
130°	305.7	363.0	556.4	924.8	1073.7
132.5°	315.4	377.2	555.5	882.6	1019.8
135°	327.2	390.4	554.5	839.1	968.9
137.5°	338.0	401.2	552.5	797.9	915.0
140°	348.8	411.0	551.5	757.8	858.2
142.5°	360.5	419.8	549.6	721.0	805.3
145°	373.2	427.6	547.6	688.2	757.3
147.5°	386.0	436.0	544.7	662.8	716.1
150°	398.7	442.8	540.8	640.2	680.9
152.5°	411.5	450.2	535.9	620.6	651.5
155°	424.2	457.5	530.0	602.5	628.0
157.5°	434.0	463.9	525.1	584.9	605.4
160°	445.7	469.3	519.2	568.7	583.9
162.5°	454.6	473.2	513.3	553.5	564.3
165°	463.4	476.6	507.5	538.3	547.6
167.5°	470.2	479.6	501.6	525.1	531.0
170°	476.1	481.0	495.7	513.3	516.3
172.5°	480.0	482.5	490.8	503.0	502.6
175°	483.0	483.4	486.9	493.7	492.8
177.5°	484.9	483.9	483.9	487.9	485.9
180°	483.9	483.9	483.9	483.9	483.9

(END OF REPORT)