

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: P1011935

Luminaire Tested: S123DIP-B775D1025UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011935
REPORT IS A COMBINATION OF REPORTS P990274 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

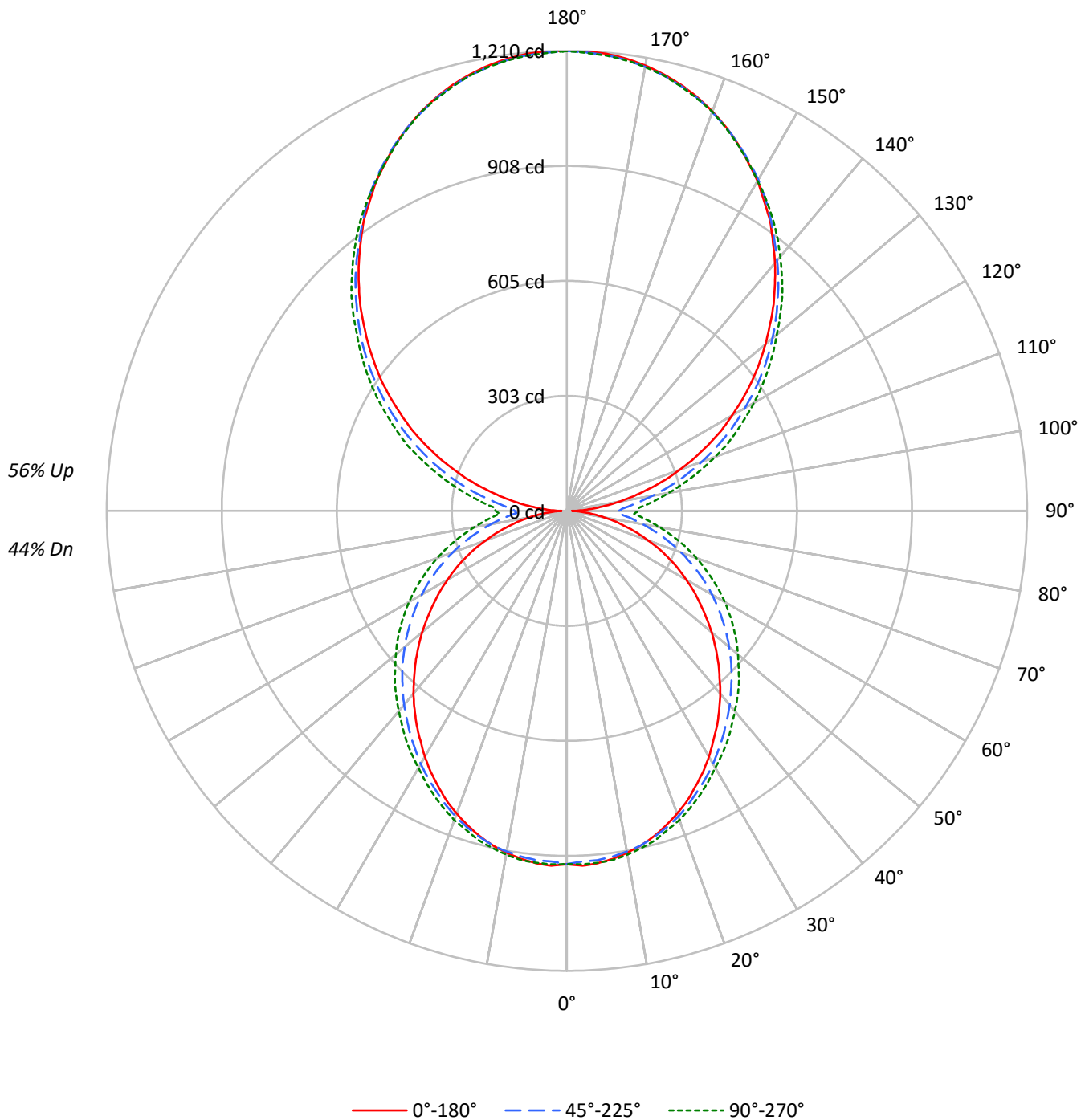
Lumens per Lamp: N/A
Luminaire Lumens: 6476.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	43	42	41
2	87	79	72	67	79	72	67	62	60	56	52	48	45	43	38	36	34
3	79	69	61	55	72	63	57	51	52	47	43	42	39	36	33	31	28
4	72	61	53	46	65	56	49	43	46	41	37	38	34	30	29	27	24
5	66	54	46	40	60	50	42	37	41	36	31	34	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18
7	56	44	35	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	39	32	26	47	36	29	24	31	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10002	10002	10002
5°	10030	9709	9701
10°	9936	9446	9374
15°	9804	9155	9027
20°	9618	8832	8654
25°	9388	8467	8268
30°	9152	8137	7880
35°	8889	7791	7564
40°	8637	7475	7231
45°	8358	7168	6956
50°	8082	6864	6658
55°	7777	6552	6384
60°	7478	6234	6102
65°	7170	5895	5773
70°	6708	5515	5434
75°	6121	5079	5083
80°	5440	4642	4684
85°	4764	4286	4397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8358 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.4
10°-20°	251.3	3.9
20°-30°	375.8	5.8
30°-40°	448.7	6.9
40°-50°	469.4	7.2
50°-60°	440.5	6.8
60°-70°	368.0	5.7
70°-80°	263.1	4.1
80°-90°	159.1	2.5
90°-100°	176.2	2.7
100°-110°	308.0	4.8
110°-120°	449.5	6.9
120°-130°	555.3	8.6
130°-140°	605.6	9.4
140°-150°	585.8	9.0
150°-160°	491.1	7.6
160°-170°	326.9	5.0
170°-180°	114.5	1.8
0°-30°	715.2	11.0
0°-40°	1163.9	18.0
0°-60°	2073.9	32.0
0°-90°	2864.1	44.2
90°-120°	933.7	14.4
90°-150°	2680.5	41.4
90°-180°	3613.0	55.8
0°-180°	6476.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	930	928	922	930	929	88
15°	886	889	888	898	897	250
25°	800	810	813	826	826	369
35°	688	704	718	733	737	430
45°	563	587	612	632	640	434
55°	429	463	499	526	534	384
65°	297	336	381	411	421	293
75°	161	208	259	292	305	172
85°	50	100	154	188	198	51
90°	14	73	137	175	187	14
95°	67	113	170	206	216	70
105°	222	248	300	328	340	237
115°	409	424	458	484	491	405
125°	594	597	624	642	645	530
135°	769	774	784	798	801	592
145°	931	932	935	942	942	581
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.2	929.2	929.2	929.2	929.2
2.5°	934.3	931.3	923.2	931.3	930.3
5°	930.3	928.2	922.2	930.3	929.2
7.5°	923.2	923.2	917.1	927.2	926.2
10°	913.1	915.1	910.0	920.1	918.1
12.5°	900.9	903.9	900.9	910.0	908.0
15°	885.7	888.8	887.7	897.9	896.9
17.5°	867.5	873.6	872.6	881.7	879.6
20°	847.3	853.3	855.4	864.5	865.5
22.5°	826.0	832.1	835.1	847.3	846.2
25°	799.7	809.8	812.8	826.0	826.0
27.5°	774.4	785.5	791.6	802.7	803.7
30°	747.0	760.2	768.3	780.4	780.4
32.5°	716.7	731.9	743.0	756.2	759.2
35°	688.3	704.5	717.7	732.9	736.9
37.5°	658.0	676.2	691.4	708.6	711.6
40°	627.6	645.8	666.1	683.3	687.3
42.5°	594.2	617.5	638.7	658.0	664.0
45°	562.8	587.1	612.4	631.6	639.7
47.5°	529.4	556.7	585.1	606.3	612.4
50°	497.0	525.4	556.7	580.0	587.1
52.5°	462.6	493.0	528.4	552.7	561.8
55°	429.2	462.6	499.0	526.4	534.5
57.5°	396.8	431.2	470.7	498.0	507.1
60°	362.4	398.8	440.3	468.7	479.8
62.5°	330.0	367.4	412.0	440.3	450.5
65°	296.6	336.1	380.6	411.0	421.1
67.5°	263.2	304.7	349.2	382.6	390.7
70°	227.8	271.3	319.9	352.3	362.4
72.5°	195.4	238.9	289.5	322.9	333.0
75°	160.9	208.5	259.1	292.5	304.7
77.5°	131.6	179.2	229.8	265.2	274.3
80°	100.2	149.8	202.5	236.9	247.0
82.5°	72.9	123.5	177.1	211.6	221.7
85°	49.6	100.2	153.9	188.3	198.4
87.5°	30.4	81.0	132.6	167.0	177.1
90°	14.2	73.3	137.2	175.4	187.4
92.5°	40.6	89.9	146.2	182.5	189.7
95°	67.2	113.3	170.5	205.7	215.8
97.5°	102.3	143.5	196.7	231.9	241.0
100°	138.3	176.4	227.8	259.9	271.9
102.5°	180.1	211.2	263.5	294.6	303.9
105°	221.9	248.1	300.1	328.5	339.5
107.5°	270.3	292.4	337.7	368.0	376.1
110°	314.9	335.0	377.4	407.5	413.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	377.5	416.0	446.0	455.1
115°	408.9	423.9	458.4	483.6	490.8
117.5°	457.4	466.4	498.9	523.2	528.5
120°	500.9	511.7	540.4	562.7	567.9
122.5°	547.5	553.4	582.9	602.2	606.5
125°	594.0	596.8	624.3	641.7	645.0
127.5°	637.7	642.4	665.8	680.4	683.7
130°	681.4	688.0	705.5	720.9	720.3
132.5°	724.1	731.7	745.0	758.5	760.8
135°	768.8	773.5	783.6	798.1	801.2
137.5°	809.6	813.4	823.3	834.8	837.0
140°	851.4	856.1	860.1	874.3	872.8
142.5°	890.3	894.1	896.0	908.2	908.5
145°	931.2	932.1	935.0	942.1	942.3
147.5°	965.4	969.2	972.0	975.0	973.4
150°	1002.4	1004.3	1006.2	1006.2	1002.5
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)