

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: P1012053

Luminaire Tested: S123DIP-B775D585UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012053
REPORT IS A COMBINATION OF REPORTS P990440 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

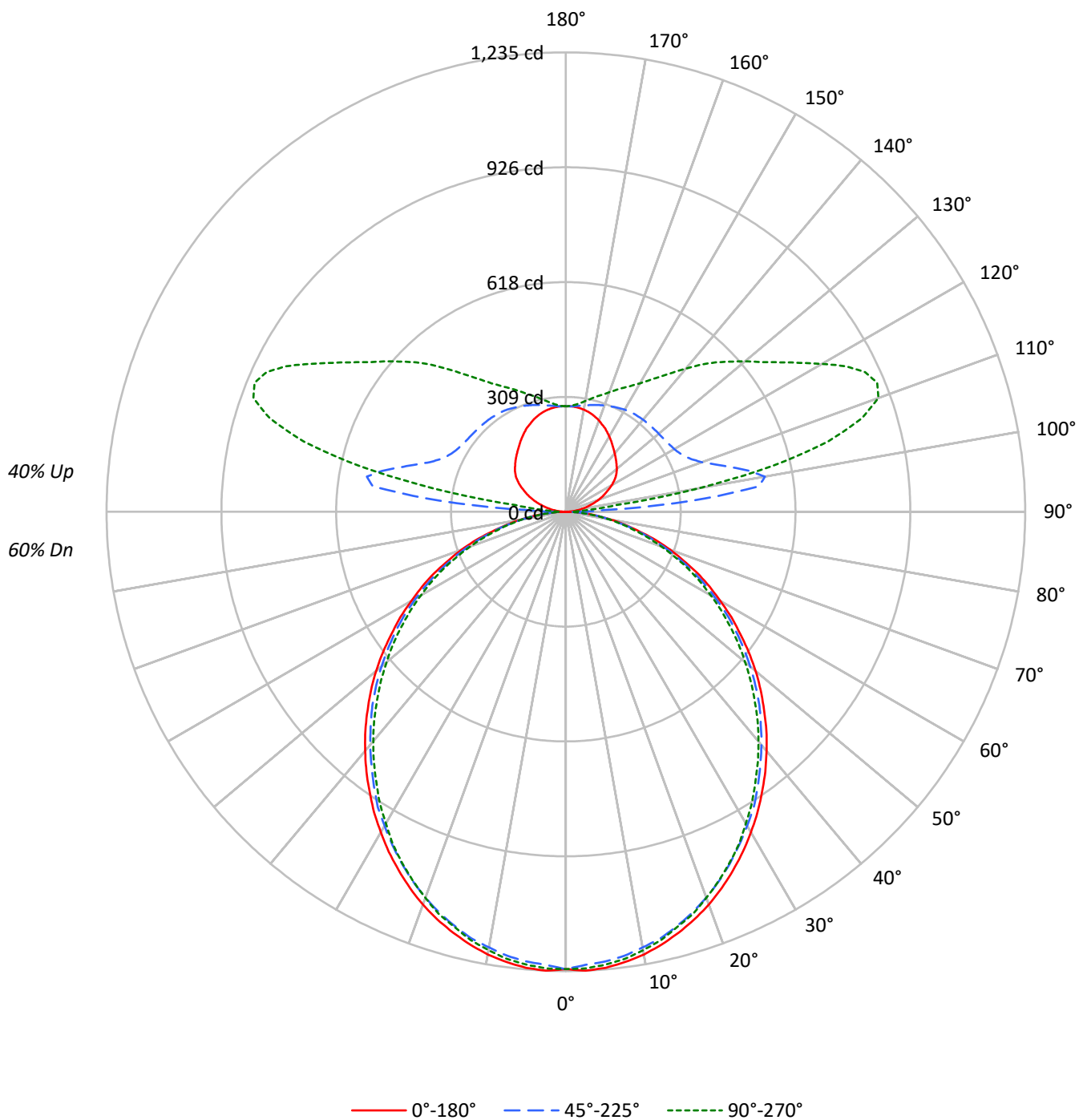
Lumens per Lamp: N/A
Luminaire Lumens: 5339.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39
4	76	65	57	51	71	61	54	48	53	48	43	47	42	39	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	30
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	27	24	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	22	19
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13235	13235	13235
5°	13268	12778	12759
10°	13150	12346	12219
15°	12967	11895	11631
20°	12757	11396	11047
25°	12486	10870	10424
30°	12190	10325	9768
35°	11879	9767	9117
40°	11552	9183	8475
45°	11195	8612	7806
50°	10832	7977	7134
55°	10364	7316	6452
60°	9882	6586	5728
65°	9430	5797	4971
70°	8779	4922	4090
75°	7844	3897	3175
80°	6775	2739	2245
85°	5283	1473	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11195 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	2.2
10°-20°	327.3	6.1
20°-30°	483.4	9.1
30°-40°	564.6	10.6
40°-50°	567.5	10.6
50°-60°	498.6	9.3
60°-70°	371.3	7.0
70°-80°	211.3	4.0
80°-90°	61.7	1.2
90°-100°	161.1	3.0
100°-110°	450.3	8.4
110°-120°	439.1	8.2
120°-130°	349.6	6.5
130°-140°	276.0	5.2
140°-150°	205.9	3.9
150°-160°	143.6	2.7
160°-170°	84.4	1.6
170°-180°	27.4	0.5
0°-30°	926.6	17.4
0°-40°	1491.2	27.9
0°-60°	2557.3	47.9
0°-90°	3201.6	60.0
90°-120°	1050.4	19.7
90°-150°	1881.9	35.2
90°-180°	2137.0	40.0
0°-180°	5339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1231	1225	1214	1224	1222	117
15°	1171	1167	1153	1162	1156	330
25°	1064	1057	1044	1044	1041	490
35°	920	913	900	893	888	575
45°	754	750	736	723	718	582
55°	572	571	557	546	540	512
65°	390	385	374	366	363	385
75°	206	202	199	194	190	220
85°	55	53	53	51	51	59
90°	1	7	14	16	17	5
95°	20	63	340	99	67	21
105°	67	98	461	807	730	71
115°	118	147	353	774	888	116
125°	164	193	329	597	700	145
135°	192	229	325	492	568	148
145°	219	250	321	403	444	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.6	1229.6	1229.6	1229.6	1229.6
2.5°	1234.8	1230.6	1219.0	1229.6	1228.5
5°	1230.6	1225.3	1213.7	1224.3	1222.2
7.5°	1221.1	1215.8	1204.2	1213.7	1212.6
10°	1208.4	1203.1	1189.4	1198.9	1196.8
12.5°	1191.5	1187.3	1174.6	1180.9	1179.9
15°	1171.4	1167.2	1153.4	1161.9	1155.6
17.5°	1149.2	1143.9	1130.2	1136.5	1134.4
20°	1123.8	1117.5	1103.7	1108.0	1104.8
22.5°	1095.3	1088.9	1075.2	1078.4	1074.1
25°	1063.6	1057.2	1043.5	1044.5	1041.4
27.5°	1030.8	1024.5	1009.7	1010.7	1007.5
30°	994.9	989.6	974.8	974.8	967.4
32.5°	958.9	951.5	940.9	933.5	930.4
35°	919.8	913.4	899.7	893.4	888.1
37.5°	880.7	872.2	858.5	851.1	847.9
40°	839.4	833.1	818.3	809.8	805.6
42.5°	798.2	790.8	776.0	767.5	763.3
45°	753.8	749.6	735.8	723.1	717.9
47.5°	710.5	704.1	691.4	678.7	674.5
50°	666.1	660.8	647.0	635.4	629.1
52.5°	619.5	616.4	601.6	592.0	585.7
55°	572.0	570.9	557.2	545.5	540.2
57.5°	527.6	523.3	512.8	502.2	495.8
60°	478.9	477.9	465.2	455.7	450.4
62.5°	435.6	432.4	419.7	410.2	407.0
65°	390.1	384.8	374.3	365.8	362.6
67.5°	341.5	337.3	328.8	321.4	317.2
70°	298.1	291.8	285.5	278.1	272.8
72.5°	252.7	248.4	241.0	234.7	232.6
75°	206.2	201.9	198.8	193.5	190.3
77.5°	164.9	162.8	158.6	154.4	154.4
80°	124.8	121.6	119.5	118.4	118.4
82.5°	85.6	85.6	85.6	83.5	82.5
85°	55.0	52.9	52.9	50.7	50.7
87.5°	27.5	24.3	23.3	22.2	22.2
90°	1.1	6.9	14.3	16.0	16.6
92.5°	8.6	34.4	106.7	36.4	30.4
95°	19.5	63.4	340.3	99.2	66.6
97.5°	31.0	72.6	523.4	249.6	136.6
100°	42.5	80.1	543.4	522.2	359.8
102.5°	54.5	88.6	506.1	699.2	569.8
105°	66.6	98.4	461.4	806.8	730.0
107.5°	79.2	109.9	421.8	854.2	834.4
110°	93.0	121.6	389.1	855.6	894.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.6	134.0	367.3	823.2	906.1
115°	117.6	146.6	352.9	773.8	887.8
117.5°	129.7	158.6	343.2	721.0	847.6
120°	142.3	170.8	336.9	671.2	794.8
122.5°	153.2	182.2	332.8	631.8	745.4
125°	163.6	193.2	329.4	596.8	700.1
127.5°	171.6	203.4	327.7	568.2	661.1
130°	179.0	212.6	326.0	541.7	629.0
132.5°	184.8	221.0	325.4	517.0	597.4
135°	191.7	228.6	324.8	491.6	567.6
137.5°	198.0	235.0	323.7	467.4	536.0
140°	204.3	240.8	323.1	443.8	502.7
142.5°	211.2	245.9	321.9	422.4	471.7
145°	218.6	250.5	320.8	403.2	443.6
147.5°	226.1	255.4	319.1	388.2	419.5
150°	233.6	259.4	316.8	375.0	398.8
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)