

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: P1012010

Luminaire Tested: S123DIP-B775D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012010
REPORT IS A COMBINATION OF REPORTS P990379 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

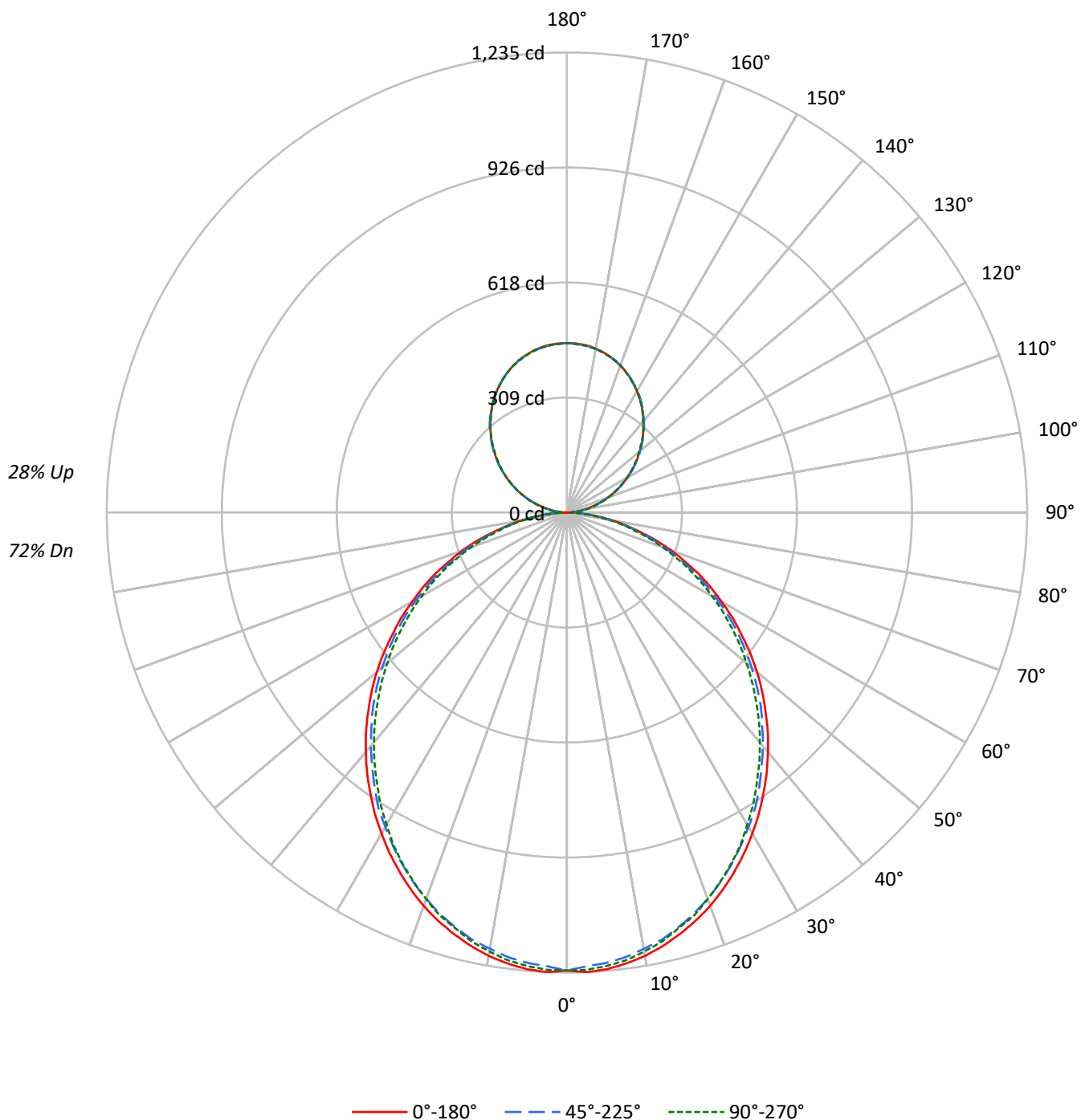
Lumens per Lamp: N/A
Luminaire Lumens: 4460.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	98	94	90	97	93	90	86	84	81	78	75	73	71	67	66	64
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46
4	78	67	58	52	74	64	56	50	58	51	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34
6	66	54	45	39	62	51	43	38	47	40	35	42	37	33	38	34	30
7	61	48	40	34	58	46	39	33	42	36	31	39	33	29	35	30	27
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24
9	53	40	33	27	50	39	32	27	36	29	25	33	27	23	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20

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	2.6
10°-20°	327.3	7.3
20°-30°	483.4	10.8
30°-40°	564.6	12.7
40°-50°	567.5	12.7
50°-60°	498.6	11.2
60°-70°	371.3	8.3
70°-80°	211.3	4.7
80°-90°	61.0	1.4
90°-100°	29.3	0.7
100°-110°	88.5	2.0
110°-120°	150.7	3.4
120°-130°	198.3	4.4
130°-140°	222.9	5.0
140°-150°	219.1	4.9
150°-160°	184.5	4.1
160°-170°	122.8	2.8
170°-180°	43.0	1.0
0°-30°	926.6	20.8
0°-40°	1491.2	33.4
0°-60°	2557.3	57.3
0°-90°	3201.0	71.8
90°-120°	268.5	6.0
90°-150°	908.8	20.4
90°-180°	1259.0	28.2
0°-180°	4460.0	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°	0	4	9	10	11	5
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	152	153	152	152	152	150
125°	222	223	222	221	220	198
135°	288	290	290	288	288	222
145°	350	350	351	351	350	218
155°	400	400	400	402	399	184
165°	436	435	435	437	434	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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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°	0.4	3.9	8.6	10.0	10.7
92.5°	10.7	12.9	15.0	16.1	15.3
95°	21.1	23.6	26.4	27.8	27.8
97.5°	34.6	36.4	38.6	40.3	40.0
100°	48.5	50.7	52.5	53.5	54.3
102.5°	64.6	65.7	68.2	69.2	68.9
105°	80.3	81.0	84.2	84.2	85.0
107.5°	98.9	99.2	100.7	101.7	101.4
110°	116.0	116.7	117.4	118.9	118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.9	134.2	134.2	136.0	136.0
115°	151.7	152.8	152.1	152.4	152.1
117.5°	169.9	170.3	169.5	169.5	168.5
120°	186.7	188.8	187.0	186.7	186.0
122.5°	204.2	205.6	204.9	203.8	202.7
125°	222.0	223.1	222.4	220.9	219.5
127.5°	238.4	240.6	239.9	237.7	236.3
130°	254.9	257.7	256.6	255.2	252.7
132.5°	271.3	274.1	273.4	271.6	269.9
135°	288.1	290.2	289.8	288.4	287.7
137.5°	303.4	305.2	306.3	304.5	303.4
140°	319.5	321.3	321.6	321.3	318.8
142.5°	334.1	335.9	336.6	336.2	334.5
145°	349.5	350.2	351.2	350.9	349.5
147.5°	362.7	364.1	365.2	365.2	363.0
150°	376.6	377.3	378.0	378.0	375.9
152.5°	388.0	389.1	389.4	390.1	388.4
155°	400.1	400.1	400.5	401.9	399.4
157.5°	410.5	410.1	410.5	411.9	409.8
160°	420.1	419.4	419.4	421.2	419.8
162.5°	428.7	427.6	428.0	429.8	427.3
165°	435.8	434.8	434.8	436.9	434.4
167.5°	441.9	440.5	440.8	443.0	440.8
170°	446.9	445.5	445.5	448.0	445.5
172.5°	450.8	449.4	449.4	451.5	449.0
175°	453.3	451.9	451.9	454.0	451.5
177.5°	454.7	453.3	453.3	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)