

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: P1012061

Luminaire Tested: S123DIP-B775D585UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012061
REPORT IS A COMBINATION OF REPORTS P990448 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB40-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

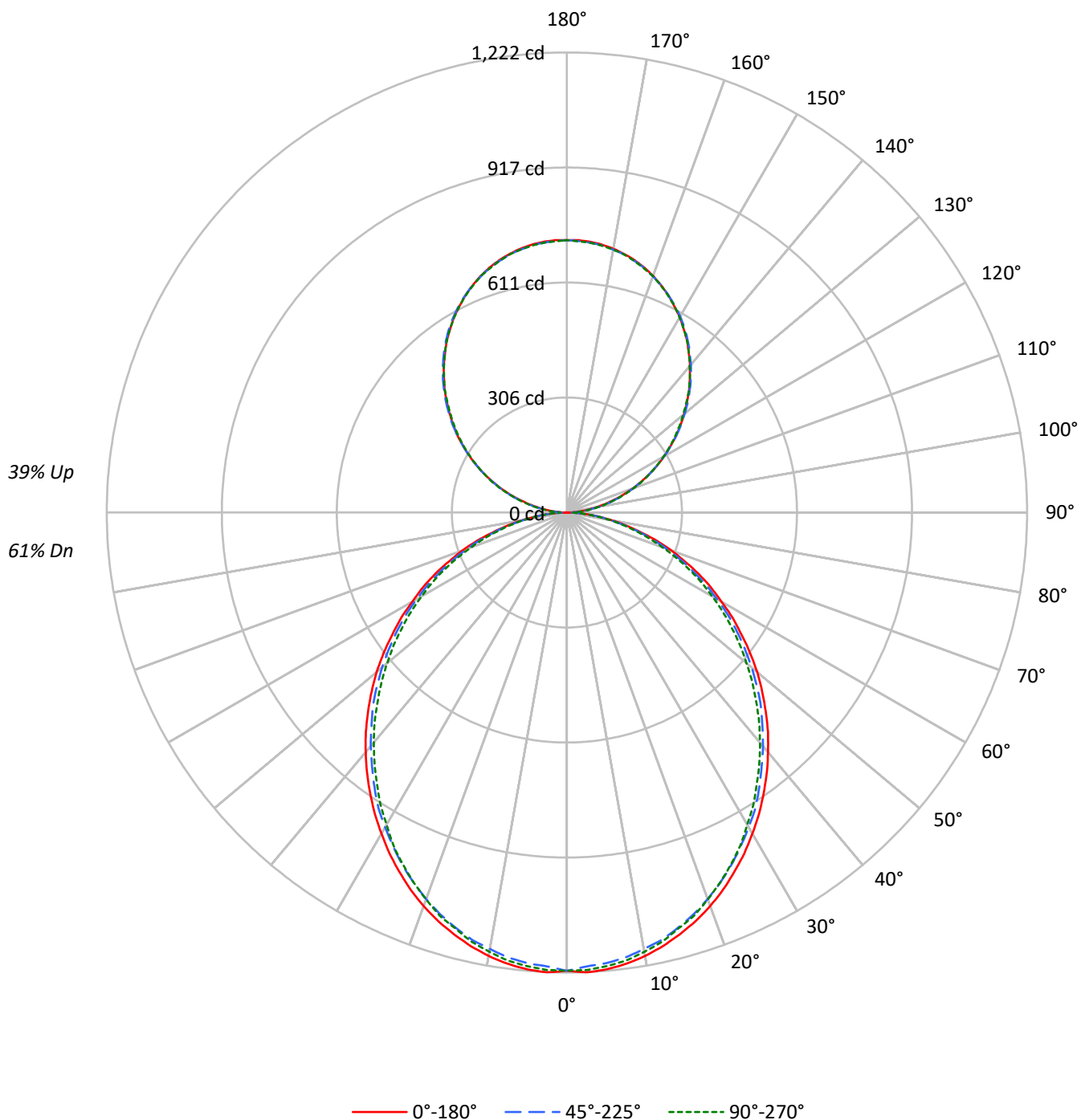
Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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		103	103	103	103		90	90	90		78	78	78		66	66	66
1	100	96	92	88		94	90	86	83		79	76	74		68	66	65		59	57	56
2	91	84	77	72		85	78	73	68		69	65	61		60	57	54		52	49	47
3	83	74	66	60		78	69	62	57		61	55	51		53	49	46		46	43	40
4	76	65	57	51		71	61	54	48		54	48	44		47	43	39		41	37	35
5	70	58	50	44		65	55	47	42		48	42	38		42	38	34		37	33	30
6	65	52	44	38		60	49	42	36		44	37	33		38	33	30		33	30	26
7	60	47	39	33		56	45	37	32		40	33	29		35	30	26		30	27	24
8	55	43	35	30		52	41	33	28		36	30	26		32	27	23		28	24	21
9	52	39	32	26		48	37	30	25		33	27	23		29	25	21		26	22	19
10	48	36	29	24		45	34	27	23		31	25	21		27	22	19		24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13103	13103	13103
5°	13135	12651	12631
10°	13018	12222	12097
15°	12837	11777	11514
20°	12630	11282	10937
25°	12361	10762	10320
30°	12067	10221	9670
35°	11760	9669	9025
40°	11437	9091	8391
45°	11083	8527	7728
50°	10723	7898	7063
55°	10259	7243	6387
60°	9783	6520	5671
65°	9336	5738	4922
70°	8693	4872	4048
75°	7764	3858	3143
80°	6705	2712	2223
85°	5225	1456	1113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.2
10°-20°	324.0	6.3
20°-30°	478.6	9.2
30°-40°	558.9	10.8
40°-50°	561.9	10.9
50°-60°	493.6	9.5
60°-70°	367.6	7.1
70°-80°	209.2	4.0
80°-90°	61.0	1.2
90°-100°	46.6	0.9
100°-110°	141.0	2.7
110°-120°	240.0	4.6
120°-130°	315.7	6.1
130°-140°	354.8	6.9
140°-150°	348.8	6.7
150°-160°	293.7	5.7
160°-170°	195.5	3.8
170°-180°	68.5	1.3
0°-30°	917.4	17.7
0°-40°	1476.3	28.5
0°-60°	2531.7	48.9
0°-90°	3169.5	61.3
90°-120°	427.5	8.3
90°-150°	1446.8	28.0
90°-180°	2004.0	38.7
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1218	1213	1202	1212	1210	116
15°	1160	1156	1142	1150	1144	327
25°	1053	1047	1033	1034	1031	485
35°	911	904	891	884	879	570
45°	746	742	728	716	711	576
55°	566	565	552	540	535	507
65°	386	381	370	362	359	381
75°	204	200	197	192	188	218
85°	54	52	52	50	50	58
90°	1	6	14	16	17	6
95°	34	38	42	44	44	37
105°	128	129	134	134	135	137
115°	242	243	242	243	242	239
125°	354	355	354	352	350	315
135°	459	462	461	459	458	353
145°	556	558	559	559	556	347
155°	637	637	638	640	636	293
165°	694	692	692	696	692	196
175°	722	719	719	723	719	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1222.5	1218.3	1206.8	1217.3	1216.2
5°	1218.3	1213.1	1201.6	1212.0	1209.9
7.5°	1208.9	1203.7	1192.1	1201.6	1200.5
10°	1196.3	1191.1	1177.5	1186.9	1184.8
12.5°	1179.6	1175.4	1162.8	1169.1	1168.1
15°	1159.7	1155.5	1141.9	1150.3	1144.0
17.5°	1137.7	1132.5	1118.9	1125.2	1123.1
20°	1112.6	1106.3	1092.7	1096.9	1093.8
22.5°	1084.3	1078.1	1064.5	1067.6	1063.4
25°	1052.9	1046.7	1033.1	1034.1	1031.0
27.5°	1020.5	1014.2	999.6	1000.6	997.5
30°	984.9	979.7	965.0	965.0	957.7
32.5°	949.3	942.0	931.5	924.2	921.1
35°	910.6	904.3	890.7	884.4	879.2
37.5°	871.9	863.5	849.9	842.6	839.4
40°	831.0	824.8	810.1	801.7	797.6
42.5°	790.2	782.9	768.2	759.9	755.7
45°	746.3	742.1	728.5	715.9	710.7
47.5°	703.4	697.1	684.5	672.0	667.8
50°	659.4	654.2	640.6	629.0	622.8
52.5°	613.3	610.2	595.5	586.1	579.8
55°	566.2	565.2	551.6	540.1	534.8
57.5°	522.3	518.1	507.6	497.2	490.9
60°	474.1	473.1	460.5	451.1	445.9
62.5°	431.2	428.1	415.5	406.1	403.0
65°	386.2	381.0	370.5	362.1	359.0
67.5°	338.1	333.9	325.5	318.2	314.0
70°	295.2	288.9	282.6	275.3	270.0
72.5°	250.2	246.0	238.6	232.4	230.3
75°	204.1	199.9	196.8	191.5	188.4
77.5°	163.3	161.2	157.0	152.8	152.8
80°	123.5	120.4	118.3	117.2	117.2
82.5°	84.8	84.8	84.8	82.7	81.6
85°	54.4	52.3	52.3	50.2	50.2
87.5°	27.2	24.1	23.0	22.0	22.0
90°	0.6	6.3	13.6	15.9	17.0
92.5°	17.0	20.5	23.9	25.6	24.4
95°	33.5	37.5	42.1	44.3	44.3
97.5°	55.1	58.0	61.4	64.2	63.6
100°	77.3	80.7	83.5	85.2	86.4
102.5°	102.9	104.6	108.5	110.2	109.7
105°	127.9	129.0	134.1	134.1	135.3
107.5°	157.4	158.0	160.3	162.0	161.4
110°	184.7	185.8	187.0	189.2	188.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	213.7	213.7	216.5	216.5
115°	241.5	243.2	242.1	242.7	242.1
117.5°	270.5	271.1	269.9	269.9	268.2
120°	297.2	300.6	297.8	297.2	296.1
122.5°	325.1	327.3	326.2	324.5	322.8
125°	353.5	355.2	354.0	351.8	349.5
127.5°	379.6	383.0	381.9	378.5	376.2
130°	405.8	410.3	408.6	406.3	402.3
132.5°	431.9	436.4	435.3	432.5	429.6
135°	458.6	462.0	461.4	459.2	458.0
137.5°	483.0	485.9	487.6	484.7	483.0
140°	508.6	511.5	512.0	511.5	507.5
142.5°	531.9	534.8	535.9	535.3	532.5
145°	556.3	557.5	559.2	558.6	556.3
147.5°	577.4	579.6	581.4	581.4	577.9
150°	599.5	600.7	601.8	601.8	598.4
152.5°	617.7	619.4	620.0	621.1	618.3
155°	637.0	637.0	637.6	639.9	635.9
157.5°	653.5	653.0	653.5	655.8	652.4
160°	668.9	667.7	667.7	670.6	668.3
162.5°	682.5	680.8	681.4	684.2	680.2
165°	693.9	692.2	692.2	695.6	691.6
167.5°	703.5	701.3	701.8	705.2	701.8
170°	711.5	709.2	709.2	713.2	709.2
172.5°	717.7	715.5	715.5	718.9	714.9
175°	721.7	719.4	719.4	722.9	718.9
177.5°	724.0	721.7	721.7	725.1	721.1
180°	723.4	723.4	723.4	723.4	723.4

(END OF REPORT)