

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: P1012040

Luminaire Tested: S123DIP-B775D585UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012040
REPORT IS A COMBINATION OF REPORTS P990427 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

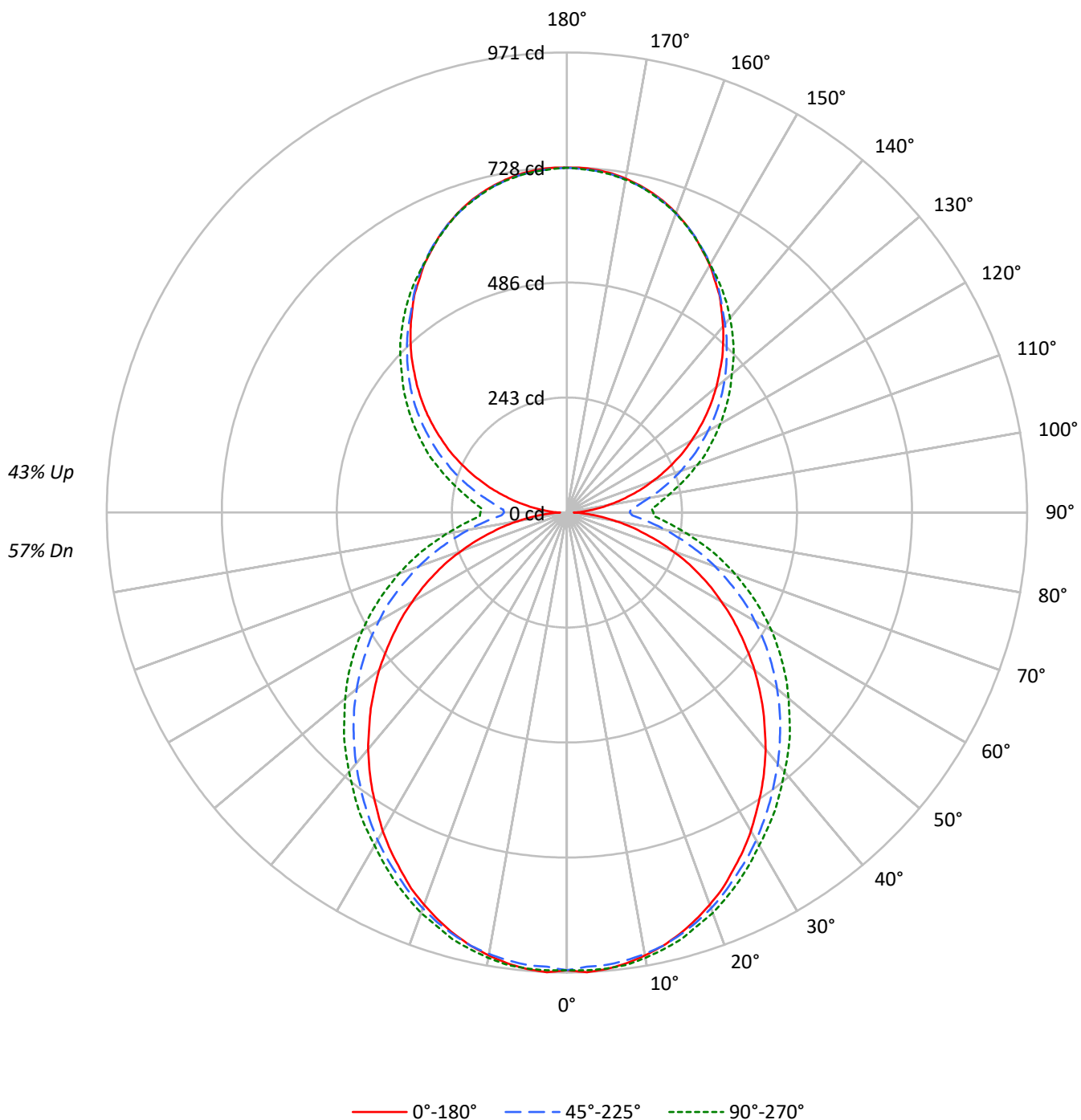
Lumens per Lamp: N/A
Luminaire Lumens: 5265.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	75	72	69	63	61	59	53	52	50
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	41
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	40	37	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	34	36	32	30
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	34	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	26	23	27	23	20
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	21	26	22	18	22	19	16
10	46	34	26	22	43	32	25	21	28	22	18	24	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.7
10°-20°	261.3	5.0
20°-30°	390.7	7.4
30°-40°	466.5	8.9
40°-50°	488.1	9.3
50°-60°	458.0	8.7
60°-70°	382.6	7.3
70°-80°	273.6	5.2
80°-90°	164.3	3.1
90°-100°	149.1	2.8
100°-110°	217.0	4.1
110°-120°	291.6	5.5
120°-130°	346.2	6.6
130°-140°	369.8	7.0
140°-150°	353.6	6.7
150°-160°	295.5	5.6
160°-170°	196.7	3.7
170°-180°	68.9	1.3
0°-30°	743.6	14.1
0°-40°	1210.1	23.0
0°-60°	2156.2	41.0
0°-90°	2976.7	56.5
90°-120°	657.7	12.5
90°-150°	1727.3	32.8
90°-180°	2288.0	43.5
0°-180°	5265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	14	72	133	171	182	12
95°	45	90	146	181	192	46
105°	137	164	214	243	254	146
115°	248	263	299	325	333	246
125°	359	360	390	410	415	320
135°	463	466	477	494	498	357
145°	561	561	562	570	572	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.3	71.6	132.6	170.7	182.4
92.5°	29.8	78.5	134.5	170.9	179.3
95°	45.3	90.3	146.5	181.4	191.9
97.5°	66.0	106.7	159.6	194.1	204.0
100°	87.2	124.4	175.6	207.9	219.5
102.5°	111.9	143.1	194.4	225.6	235.5
105°	137.0	163.5	213.8	243.3	254.0
107.5°	165.8	188.4	233.8	263.9	272.9
110°	192.1	212.2	255.5	285.1	292.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.7	236.0	276.0	305.2	314.6
115°	248.3	262.6	299.3	325.1	333.0
117.5°	277.4	286.4	321.0	346.2	352.9
120°	303.2	311.9	343.8	367.4	373.6
122.5°	331.2	335.6	367.0	388.5	394.2
125°	358.8	360.5	389.9	409.7	414.7
127.5°	385.1	387.4	412.6	430.2	435.3
130°	411.4	414.9	434.2	452.0	454.2
132.5°	436.6	441.2	455.8	471.8	476.4
135°	463.4	465.9	476.8	493.5	497.6
137.5°	488.0	489.9	498.9	512.9	516.4
140°	512.8	515.6	519.3	534.5	535.8
142.5°	536.2	538.0	539.1	552.2	554.6
145°	560.8	560.8	562.5	570.4	572.3
147.5°	580.8	583.1	584.8	588.0	588.8
150°	603.1	604.3	605.4	605.4	604.1
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)