

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: P1012002

Luminaire Tested: S123DIP-B775D365UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012002
REPORT IS A COMBINATION OF REPORTS P990371 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB30-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

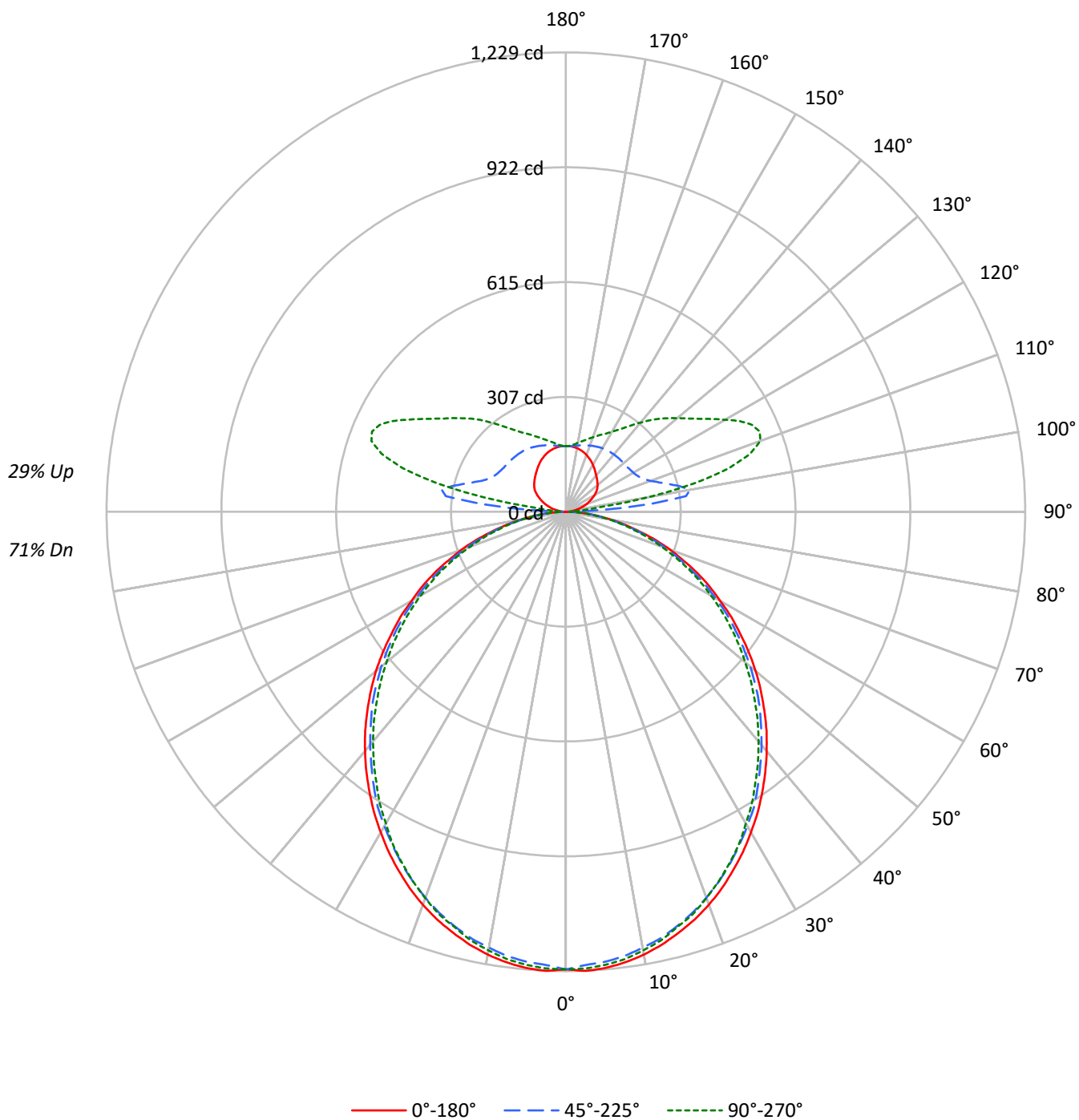
Lumens per Lamp: N/A
Luminaire Lumens: 4511.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	75	75	75
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	56	53
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	42	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	37	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13177	13177	13177
5°	13209	12722	12703
10°	13092	12292	12165
15°	12910	11844	11580
20°	12701	11347	10999
25°	12431	10822	10378
30°	12136	10279	9725
35°	11827	9725	9076
40°	11503	9142	8438
45°	11146	8575	7771
50°	10783	7943	7102
55°	10319	7284	6424
60°	9838	6557	5702
65°	9389	5771	4949
70°	8740	4899	4072
75°	7809	3879	3161
80°	6743	2725	2236
85°	5254	1465	1119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	2.6
10°-20°	325.9	7.2
20°-30°	481.3	10.7
30°-40°	562.1	12.5
40°-50°	565.1	12.5
50°-60°	496.4	11.0
60°-70°	369.7	8.2
70°-80°	210.4	4.7
80°-90°	60.8	1.3
90°-100°	99.8	2.2
100°-110°	278.9	6.2
110°-120°	272.0	6.0
120°-130°	216.6	4.8
130°-140°	171.0	3.8
140°-150°	127.6	2.8
150°-160°	89.0	2.0
160°-170°	52.3	1.2
170°-180°	17.0	0.4
0°-30°	922.6	20.5
0°-40°	1484.6	32.9
0°-60°	2546.1	56.4
0°-90°	3187.0	70.6
90°-120°	650.7	14.4
90°-150°	1165.8	25.8
90°-180°	1324.0	29.3
0°-180°	4511.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1225	1220	1208	1219	1217	116
15°	1166	1162	1148	1157	1150	329
25°	1059	1053	1039	1040	1037	488
35°	916	910	896	890	884	573
45°	750	746	733	720	715	579
55°	570	568	555	543	538	510
65°	388	383	373	364	361	383
75°	205	201	198	193	190	219
85°	55	53	53	50	50	59
90°	1	4	9	10	10	5
95°	12	39	211	62	41	13
105°	41	61	286	500	452	44
115°	73	91	219	479	550	72
125°	101	120	204	370	434	90
135°	119	142	201	304	352	92
145°	135	155	199	250	275	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.2	1224.2	1224.2	1224.2	1224.2
2.5°	1229.4	1225.2	1213.7	1224.2	1223.1
5°	1225.2	1220.0	1208.4	1218.9	1216.8
7.5°	1215.8	1210.5	1198.9	1208.4	1207.3
10°	1203.1	1197.9	1184.2	1193.7	1191.5
12.5°	1186.3	1182.1	1169.4	1175.8	1174.7
15°	1166.3	1162.1	1148.4	1156.8	1150.5
17.5°	1144.2	1138.9	1125.2	1131.6	1129.4
20°	1118.9	1112.6	1098.9	1103.1	1100.0
22.5°	1090.5	1084.2	1070.5	1073.7	1069.4
25°	1058.9	1052.6	1038.9	1040.0	1036.8
27.5°	1026.3	1020.0	1005.2	1006.3	1003.1
30°	990.5	985.2	970.5	970.5	963.1
32.5°	954.7	947.3	936.8	929.5	926.3
35°	915.8	909.5	895.8	889.5	884.2
37.5°	876.8	868.4	854.7	847.3	844.2
40°	835.8	829.5	814.7	806.3	802.1
42.5°	794.7	787.3	772.6	764.2	760.0
45°	750.5	746.3	732.6	720.0	714.7
47.5°	707.4	701.0	688.4	675.8	671.6
50°	663.1	657.9	644.2	632.6	626.3
52.5°	616.8	613.7	598.9	589.5	583.1
55°	569.5	568.4	554.7	543.1	537.9
57.5°	525.3	521.0	510.5	500.0	493.7
60°	476.8	475.8	463.1	453.7	448.4
62.5°	433.7	430.5	417.9	408.4	405.3
65°	388.4	383.1	372.6	364.2	361.0
67.5°	340.0	335.8	327.4	320.0	315.8
70°	296.8	290.5	284.2	276.8	271.6
72.5°	251.6	247.4	240.0	233.7	231.6
75°	205.3	201.0	197.9	192.6	189.5
77.5°	164.2	162.1	157.9	153.7	153.7
80°	124.2	121.0	118.9	117.9	117.9
82.5°	85.3	85.3	85.3	83.2	82.1
85°	54.7	52.6	52.6	50.5	50.5
87.5°	27.4	24.2	23.2	22.1	22.1
90°	0.7	4.2	8.9	10.0	10.3
92.5°	5.3	21.3	66.1	22.6	18.8
95°	12.1	39.3	210.8	61.5	41.2
97.5°	19.2	45.0	324.2	154.6	84.6
100°	26.3	49.6	336.7	323.6	222.9
102.5°	33.8	54.9	313.6	433.2	353.0
105°	41.2	61.0	285.8	499.8	452.2
107.5°	49.1	68.0	261.3	529.2	516.9
110°	57.6	75.4	241.0	530.0	553.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	83.0	227.5	510.0	561.3
115°	72.9	90.8	218.6	479.4	550.0
117.5°	80.3	98.3	212.6	446.7	525.1
120°	88.2	105.8	208.7	415.8	492.4
122.5°	94.9	112.9	206.2	391.5	461.8
125°	101.3	119.6	204.1	369.7	433.7
127.5°	106.3	126.0	203.0	352.0	409.5
130°	110.9	131.7	201.9	335.6	389.6
132.5°	114.5	136.8	201.6	320.3	370.1
135°	118.7	141.7	201.2	304.5	351.6
137.5°	122.6	145.6	200.5	289.6	332.0
140°	126.6	149.1	200.1	275.0	311.4
142.5°	130.8	152.3	199.4	261.7	292.2
145°	135.4	155.2	198.7	249.8	274.8
147.5°	140.1	158.2	197.7	240.5	259.9
150°	144.7	160.7	196.2	232.3	247.1
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)